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Correlated to:

Arkansas Science Curriculum Framework
(Grades 5-8)

ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Strand 1: Nature of Science	
Standard 1: Characteristics and Processes of Science - Students shall demonstrate and apply knowledge of the characteristics and processes of science using appropriate safety procedures, equipment, and technology	
GRADE 5	
NS.1.5.1 Make accurate observations	The Nature of Science and Technology
	SE/TE: 7, 12, 35, 56-57, 96
	From Bacteria to Plants
	SE/TE: 5, 15, 25, 58-59, 87, 102-103, 120-121, 125, 134-135, 158-159
	Animals
	SE/TE: 5, 33, 38-39, 60-61, 93, 116-117, 126-127, 146-147, 164-165
	Cells and Heredity
	SE/TE: 5, 15, 31, 42-43, 82-83, 146-147, 174
	Human Biology and Health
	SE/TE: 5, 29, 36-37, 42-43, 121, 132-133, 152-153, 164-165, 174-175, 208-209, 214-215, 223
	Environmental Science
	SE/TE: 5, 12, 40-41, 68-69, 74-75, 80-81, 88, 94, 130-131, 144-145, 156-157
	Inside Earth
	SE/TE: 37, 66, 106-107, 113, 136, 140, 163
	Earth's Changing Surface
	SE/TE: 20, 55, 82, 83, 122
	Earth's Waters
	SE/TE: 18, 40-41, 47, 56, 66-67, 122-123, 165
	Weather and Climate
	SE/TE: 5, 15, 26, 99, 108, 117
Astronomy	
SE/TE: 14-15, 28-29, 46-47, 117	
Chemical Building Blocks	
SE/TE: 34-35, 73, 96-97	
Chemical Interactions	
SE/TE: 54-55, 72-73, 135	
Motion, Forces and Energy	
SE/TE: 40-41, 188-189	
Electricity and Magnetism	
SE/TE: 12-13, 42-43, 52-53, 79, 92-93, 107, 130-131	
Sound and Light	
SE/TE: 24-25, 53, 88-89, 97-99, 112, 124	

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	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>
	TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012
NS.1.5.2 Identify and define components of experimental design used to produce empirical evidence:	
<ul style="list-style-type: none"> hypothesis 	<p>The Nature of Science and Technology SE/TE: 5, 15, 23</p> <p>From Bacteria to Plants SE/TE: 72-73, 97</p> <p>Animals SE/TE: 60-61, 155, 164-165, 186</p> <p>Cells and Heredity SE/TE: 82-83, 178</p> <p>Human Biology and Health SE/TE: 90, 103, 133, 181, 223</p> <p>Environmental Science SE/TE: 5, 40-41, 49, 58, 75, 146, 165</p> <p>Inside Earth SE/TE: 106-107</p> <p>Earth's Changing Surface SE/TE: 47, 55, 70, 71</p> <p>Earth's Waters SE/TE: 18, 40-41</p> <p>Weather and Climate SE/TE: 27, 41, 107</p> <p>Astronomy SE/TE: 102-103</p> <p>Chemical Building Blocks SE/TE: 48, 108, 130</p> <p>Chemical Interactions SE/TE: 74, 126</p> <p>Motion, Forces and Energy SE/TE: 40-41, 164-165</p> <p>Electricity and Magnetism SE/TE: 12-13, 113</p> <p>Sound and Light SE/TE: 16, 53</p>

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	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012</p>
<ul style="list-style-type: none"> replication 	<p>The Nature of Science and Technology SE/TE: 106-107</p> <p>From Bacteria to Plants SE/TE: 168-169, 186-187</p> <p>Cells and Heredity SE/TE: 14-15, 146-147</p> <p>Human Biology and Health SE/TE: 103</p> <p>Environmental Science SE/TE: 74-75, 172-173</p> <p>Inside Earth SE/TE: 106-107</p> <p>Earth's Changing Surface SE/TE: 46-47, 70-72</p> <p>Astronomy SE/TE: 134-135</p> <p>Chemical Interactions SE/TE: 90-91</p> <p>Motion, Forces and Energy SE/TE: 62-63, 88-89, 164-165, 188-189</p>
	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012</p>
<ul style="list-style-type: none"> sample size 	<p>From Bacteria to Plants SE/TE: 48</p> <p>Human Biology and Health SE/TE: 54</p> <p>Environmental Science SE/TE: 21</p>

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<ul style="list-style-type: none"> appropriate use of control 	<p>The Nature of Science and Technology SE/TE: 16, 23, 185</p> <p>From Bacteria to Plants SE/TE: 15, 58-59, 87, 120-121, 185</p> <p>Animals SE/TE: 141, 187</p> <p>Cells and Heredity SE/TE: 54, 179</p> <p>Human Biology and Health SE/TE: 37, 66-67, 152-153, 164-165, 181, 208-209</p> <p>Environmental Science SE/TE: 5, 40-41, 144-145, 183</p> <p>Inside Earth SE/TE: 136-137, 167</p> <p>Earth's Changing Surface SE/TE: 37, 83</p> <p>Earth's Waters SE/TE: 40-41</p> <p>Weather and Climate SE/TE: 117</p> <p>Astronomy SE/TE: 63</p> <p>Chemical Building Blocks SE/TE: 21, 96-97</p> <p>Chemical Interactions SE/TE: 28-29, 83, 90-91, 110-111, 148-149</p> <p>Motion, Forces and Energy SE/TE: 28-29, 35, 40-41, 81, 88-89, 122-123, 145, 164-165</p> <p>Electricity and Magnetism SE/TE: 12-13, 42-43, 52-53, 113</p> <p>Sound and Light SE/TE: 53, 124</p>
	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012</p>
<ul style="list-style-type: none"> • use of standardized variables 	<p>The Nature of Science and Technology SE/TE: 16, 23, 133</p> <p>From Bacteria to Plants SE/TE: 15, 58-59, 87, 120-121, 185</p> <p>Animals SE/TE: 141, 187</p> <p>Cells and Heredity SE/TE: 54, 179</p> <p>Human Biology and Health SE/TE: 37, 66-67, 152-153, 164-165, 181, 208-209</p> <p>Environmental Science SE/TE: 5, 40-41, 144-145, 183</p> <p>Inside Earth SE/TE: 136-137, 167</p> <p>Earth's Changing Surface SE/TE: 37, 83</p> <p>Earth's Waters SE/TE: 40-41</p> <p>Weather and Climate SE/TE: 117</p> <p>Astronomy SE/TE: 63</p> <p>Chemical Building Blocks SE/TE: 21, 96-97</p> <p>Chemical Interactions SE/TE: 28-29, 83, 90-91, 110-111, 148-149</p> <p>Motion, Forces and Energy SE/TE: 28-29, 35, 40-41, 81, 88-89, 122-123, 145, 164-165</p> <p>Electricity and Magnetism SE/TE: 12-13, 42-43, 52-53, 113</p> <p>Sound and Light SE/TE: 53, 124</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012</p>
<p>NS.1.5.3 Calculate mean, median, mode, and range from scientific data using SI units</p>	<p>The Nature of Science and Technology SE/TE: 56-57, 139</p> <p>From Bacteria to Plants SE/TE: 191</p> <p>Animals SE/TE: 193</p> <p>Cells and Heredity SE/TE: 185</p> <p>Human Biology and Health SE/TE: 263</p> <p>Environmental Science SE/TE: 207</p> <p>Inside Earth SE/TE: 189</p> <p>Earth's Changing Surface SE/TE: 171</p> <p>Earth's Waters SE/TE: 189</p> <p>Weather and Climate SE/TE: 163</p> <p>Astronomy SE/TE: 175</p> <p>Chemical Building Blocks SE/TE: 169</p> <p>Chemical Interactions SE/TE: 173</p> <p>Motion, Forces and Energy SE/TE: 223</p> <p>Electricity and Magnetism SE/TE: 159</p> <p>Sound and Light SE/TE: 159</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
NS.1.5.4 Interpret scientific data using:	
<ul style="list-style-type: none"> • data tables/charts 	The Nature of Science and Technology
	SE/TE: 56-57, 76, 136
	From Bacteria to Plants
	SE/TE: 15, 58-59, 87, 96-97, 134-135, 168-169
	Animals
	SE/TE: 38-39, 116-117, 187
	Cells and Heredity
	SE/TE: 63, 82-83, 146-147
	Human Biology and Health
	SE/TE: 103, 132-133, 152-153, 164-165, 174-175, 208-209
	Environmental Science
	SE/TE: 21, 69, 80-81, 144, 156-157
	Inside Earth
	SE/TE: 58, 113, 123, 136, 137, 163
	Earth's Changing Surface
	SE/TE: 70-71, 146-147
	Earth's Waters
	SE/TE: 5, 18, 40-41, 66-67, 115
	Weather and Climate
	SE/TE: 15, 26, 35, 40, 91, 116, 129
Astronomy	
SE/TE: 46	
Chemical Building Blocks	
SE/TE: 21, 66-67, 147	
Chemical Interactions	
SE/TE: 54-55, 72-73, 90-91, 110-111	
Motion, Forces and Energy	
SE/TE: 16-17, 28, 40-41, 62-63, 88, 122-123, 136, 156, 165, 188-189	
Electricity and Magnetism	
SE/TE: 20, 42, 58	
Sound and Light	
SE/TE: 24-25, 88-89, 124	

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
<ul style="list-style-type: none"> • bar graphs 	The Nature of Science and Technology
	SE/TE: 23, 68, 136
	From Bacteria to Plants
	SE/TE: 94, 188
	Animals
	SE/TE: 30, 46, 144, 190
	Cells and Heredity
	SE/TE: 29, 72, 88, 182
	Human Biology and Health
	SE/TE: 34, 57, 196, 260
	Environmental Science
	SE/TE: 84, 112, 204
	Inside Earth
	SE/TE: 186
	Earth's Changing Surface
	SE/TE: 168
	Earth's Waters
	SE/TE: 54, 162, 186
	Weather and Climate
	SE/TE: 160
	Astronomy
	SE/TE: 172
	Chemical Building Blocks
	SE/TE: 91
Chemical Interactions	
SE/TE: 170	
Motion, Forces and Energy	
SE/TE: 180, 220	
Electricity and Magnetism	
SE/TE: 118, 156	
Sound and Light	
SE/TE: 66, 156	

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<ul style="list-style-type: none"> circle graphs 	The Nature of Science and Technology
	SE/TE: 9, 68, 138
	From Bacteria to Plants
	SE/TE: 19, 190
	Animals
	SE/TE: 56, 137, 192
	Cells and Heredity
	SE/TE: 60, 184
	Human Biology and Health
	SE/TE: 96, 113, 262
	Environmental Science
	SE/TE: 125, 163, 206
	Inside Earth
	SE/TE: 89, 150, 188
	Earth's Changing Surface
	SE/TE: 170
	Earth's Waters
	SE/TE: 36, 188
	Weather and Climate
	SE/TE: 162
	Astronomy
	SE/TE: 174
	Chemical Building Blocks
	SE/TE: 168
Chemical Interactions	
SE/TE: 172	
Motion, Forces and Energy	
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Electricity and Magnetism	
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SE/TE: 158	

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
<ul style="list-style-type: none"> line graphs 	<p>The Nature of Science and Technology SE/TE: 68-77, 111, 137</p> <p>From Bacteria to Plants SE/TE: 53, 106, 163, 189</p> <p>Animals SE/TE: 141, 153, 191</p> <p>Cells and Heredity SE/TE: 125, 158, 183</p> <p>Human Biology and Health SE/TE: 64, 90, 141, 168, 230, 244, 260</p> <p>Environmental Science SE/TE: 21, 38, 103, 205</p> <p>Inside Earth SE/TE: 12, 119, 187</p> <p>Earth's Changing Surface SE/TE: 44, 70-71, 89, 137, 169</p> <p>Earth's Waters SE/TE: 106, 187</p> <p>Weather and Climate SE/TE: 95, 116-117, 161</p> <p>Astronomy SE/TE: 63, 173</p> <p>Chemical Building Blocks SE/TE: 27, 52, 62, 66-67, 70, 147</p> <p>Chemical Interactions SE/TE: 21, 52, 72-73, 90-91, 170</p> <p>Motion, Forces and Energy SE/TE: 16-17, 62-63, 119, 153, 221</p> <p>Electricity and Magnetism SE/TE: 157</p> <p>Sound and Light SE/TE: 28, 39, 157</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023</p>
<ul style="list-style-type: none"> stem and leaf plots 	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 68-77</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023</p>
<ul style="list-style-type: none"> Venn diagrams 	<p>The Nature of Science and Technology SE/TE: 119</p> <p>From Bacteria to Plants SE/TE: 69</p> <p>Animals SE/TE: NA</p> <p>Cells and Heredity SE/TE: 36</p> <p>Human Biology and Health SE/TE: 154, 270</p> <p>Environmental Science SE/TE: 174</p> <p>Inside Earth SE/TE: 15, 139, 196</p> <p>Earth's Waters SE/TE: 29</p> <p>Weather and Climate SE/TE: 119</p> <p>Chemical Building Blocks TE: 45</p> <p>Chemical Interactions SE/TE: 151 TE: 19, 35, 87</p>

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	Sound and Light
	SE/TE: 91, 131
NS.1.5.5 Communicate results and conclusions from scientific inquiry	The Nature of Science and Technology
	SE/TE: 23, 35, 56-57, 76, 96, 106-107
	From Bacteria to Plants
	SE/TE: 15, 25, 47, 58-59, 87, 96-97, 120-121, 125, 158-159
	Animals
	SE/TE: 18, 33, 46, 60-61, 84-85, 93, 126-127, 141, 155, 164-165
	Cells and Heredity
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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Chemical Interactions
	SE/TE: 21, 28-29, 54-55, 72-73, 90-91, 110-111, 135, 148-149
	Motion, Forces and Energy
	SE/TE: 16-17, 28-29, 40-41, 62-63, 81, 88-89, 122-123, 136-137, 156-157, 164-165
	Electricity and Magnetism
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	Sound and Light
	SE/TE: 16, 24-25, 53, 57, 88-89, 97-99, 112, 124
	The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012

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NS.1.5.6 Develop and implement strategies for long-term, accurate data collection	The Nature of Science and Technology
	SE/TE: 18, 56-57, 76, 136
	From Bacteria to Plants
	SE/TE: 15, 58-59, 87, 96-97, 134-135, 168-169, 185
	Animals
	SE/TE: 38-39, 116-117, 187
	Cells and Heredity
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	Human Biology and Health
	SE/TE: 103, 132-133, 152-153, 164-165, 174-175, 208-209
	Environmental Science
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	Inside Earth
	SE/TE: 58, 113, 123, 136, 137, 163
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NS.1.5.7 Summarize the characteristics of science	The Nature of Science and Technology
	SE/TE: 6-12, 13-22, 23, 24-29, 35, 56-57, 76, 96, 106-107
	From Bacteria to Plants
	SE/TE: 15, 25, 47, 58-59, 87, 96-97, 120-121, 125, 158-159
	Animals
	SE/TE: 18, 33, 46, 60-61, 84-85, 93, 126-127, 141, 155, 164-165
	Cells and Heredity
	SE/TE: 14-15, 31, 54, 63, 82-83, 90-91, 122, 129, 146-147, 154
	Human Biology and Health
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	Environmental Science
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Astronomy	
SE/TE: 14-15, 28-29, 46-47, 63, 83, 102-103, 125, 134-135	
Chemical Building Blocks	
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Chemical Interactions	
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	Motion, Forces and Energy
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	Electricity and Magnetism
	SE/TE: 12-13, 42-43, 52-53, 58-59, 92-93, 113, 130-131
	Sound and Light
	SE/TE: 16, 24-25, 53, 57, 88-89, 97-99, 112, 124
	The Nature of Science and Technology TR: Reading Strategy Transparency(ies): P1, P3; Guided Reading: 47-50, 55-58, 66-68; Transparency(ies): P2; Design Your Own Lab: 61-63; Section Summary: 46, 54, 65; Review and Reinforce: 51, 59, 69; Enrich: 52, 60, 70
	The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD PHSchool.com Web Code: cgd-6011, cgp-6012; www.SciLinks.org Web Code: scn-1613
NS.1.5.8 Explain the role of observation in the development of a theory	The Nature of Science and Technology SE/TE: 21-22 Cells and Heredity SE/TE: 10-11, 138-142 Inside Earth SE/TE: 18-22, 25-29, 30-31, 32-36, 37 Astronomy SE/TE: 148-150, 153 Chemical Interactions SE/TE: 6-11 Motion, Forces and Energy SE/TE: 19-21

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	<p>The Nature of Science and Technology TR: Guided Reading: 55-58; Transparency(ies): P2; Section Summary: 54; Review and Reinforce: 59; Enrich: 60</p> <p>Inside Earth TR: Reading Strategy Transparency(ies): F5, 7; Guided Reading: 62-63, 68-69, 79-81; Transparency(ies): F8, 9, 10-12; Skills Lab: 73-76, 84-85; Section Summary: 61, 67, 78; Review and Reinforce: 64, 71, 82; Enrich: 65, 72, 83</p> <p>Astronomy TR: Reading Strategy Transparency(ies): J45; Guided Reading: 286-287; Transparency(ies): J46, 47; Section Summary: 285; Review and Reinforce: 288; Enrich: 289</p> <p>Chemical Interactions TR: Reading Strategy Transparency(ies): L1; Guided Reading: 47-48; Transparency(ies): L2, 3; Section Summary: 46; Review and Reinforce: 49; Enrich: 50</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgp-6012</p> <p>Cells and Heredity TECH: www.SciLinks.org Web Code: scn-0311</p> <p>Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1014, cfp-1015; www.SciLinks.org Web Code: scn-1013</p> <p>Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0645</p> <p>Chemical Interactions TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-2011:</p> <p>Motion, Forces and Energy TECH: PHSchool.com Web Code: cfp-1015</p>

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NS.1.5.9 Define and give examples of hypotheses	The Nature of Science and Technology
	SE/TE: 5, 15, 23
	From Bacteria to Plants
	SE/TE: 72-73, 97
	Animals
	SE/TE: 60-61, 155, 164-165, 186
	Cells and Heredity
	SE/TE: 82-83, 178
	Human Biology and Health
	SE/TE: 90, 103, 133, 181, 223
	Environmental Science
	SE/TE: 5, 40-41, 49, 58, 75, 146, 165
	Inside Earth
	SE/TE: 106-107
	Earth's Changing Surface
	SE/TE: 47, 55, 70, 71
	Earth's Waters
	SE/TE: 18, 40-41
	Weather and Climate
	SE/TE: 27, 41, 107
	Astronomy
	SE/TE: 102-103
	Chemical Building Blocks
	SE/TE: 48, 108, 130
Chemical Interactions	
SE/TE: 74, 126	
Motion, Forces and Energy	
SE/TE: 40-41, 164-165	
Electricity and Magnetism	
SE/TE: 12-13, 113	
Sound and Light	
SE/TE: 16, 53	
	The Nature of Science and Technology
	TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60
	The Nature of Science and Technology
	TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
GRADE 6	
NS.1.6.1 Verify accuracy of observations	The Nature of Science and Technology
	SE/TE: 7, 12, 35, 56-57, 96
	From Bacteria to Plants
	SE/TE: 4-5, 15, 25, 58-59, 87, 102-103, 120-121, 125, 134-135, 158-159
	Animals
	SE/TE: 4-5, 33, 38-39, 60-61, 93, 116-117, 126-127, 146-147, 164-165
	Cells and Heredity
	SE/TE: 5, 15, 31, 42-43, 82-83, 146-147, 174
	Human Biology and Health
	SE/TE: 5, 29, 36-37, 42-43, 121, 132-133, 152-153, 164-165, 174-175, 208-209, 214-215, 223
	Environmental Science
	SE/TE: 5, 12, 40-41, 68-69, 74-75, 80-81, 88, 94, 130-131, 144-145, 156-157
	Inside Earth
	SE/TE: 37, 66, 106-107, 113, 136, 140, 163
	Earth's Changing Surface
	SE/TE: 20, 55, 82, 83, 122
	Earth's Waters
	SE/TE: 18, 40-41, 47, 56, 66-67, 122-123, 165
	Weather and Climate
	SE/TE: 5, 15, 26, 99, 108, 117
Astronomy	
SE/TE: 14-15, 28-29, 46-47, 117	
Chemical Building Blocks	
SE/TE: 34-35, 73, 96-97	
Chemical Interactions	
SE/TE: 54-55, 72-73, 135	
Motion, Forces and Energy	
SE/TE: 40-41, 188-189	
Electricity and Magnetism	
SE/TE: 12-13, 42-43, 52-53, 79, 92-93, 107, 130-131	
Sound and Light	
SE/TE: 24-25, 53, 88-89, 97-99, 112, 124	

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))																														
	The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60																														
	The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012																														
NS.1.6.2 Apply components of experimental design used to produce empirical evidence:																															
<ul style="list-style-type: none"> hypothesis 	<table border="1"> <tr> <td>The Nature of Science and Technology</td> </tr> <tr> <td>SE/TE: 5, 15, 23</td> </tr> <tr> <td>From Bacteria to Plants</td> </tr> <tr> <td>SE/TE: 72-73, 97</td> </tr> <tr> <td>Animals</td> </tr> <tr> <td>SE/TE: 60-61, 155, 164-165, 186</td> </tr> <tr> <td>Cells and Heredity</td> </tr> <tr> <td>SE/TE: 82-83, 178</td> </tr> <tr> <td>Human Biology and Health</td> </tr> <tr> <td>SE/TE: 90, 103, 133, 181, 223</td> </tr> <tr> <td>Environmental Science</td> </tr> <tr> <td>SE/TE: 5, 40-41, 49, 58, 75, 146, 165</td> </tr> <tr> <td>Inside Earth</td> </tr> <tr> <td>SE/TE: 106-107</td> </tr> <tr> <td>Earth's Changing Surface</td> </tr> <tr> <td>SE/TE: 47, 55, 70, 71</td> </tr> <tr> <td>Earth's Waters</td> </tr> <tr> <td>SE/TE: 18, 40-41</td> </tr> <tr> <td>Weather and Climate</td> </tr> <tr> <td>SE/TE: 27, 41, 107</td> </tr> <tr> <td>Astronomy</td> </tr> <tr> <td>SE/TE: 102-103</td> </tr> <tr> <td>Chemical Building Blocks</td> </tr> <tr> <td>SE/TE: 48, 108, 130</td> </tr> <tr> <td>Chemical Interactions</td> </tr> <tr> <td>SE/TE: 74, 126</td> </tr> <tr> <td>Motion, Forces and Energy</td> </tr> <tr> <td>SE/TE: 40-41, 164-165</td> </tr> <tr> <td>Electricity and Magnetism</td> </tr> <tr> <td>SE/TE: 12-13, 113</td> </tr> </table>	The Nature of Science and Technology	SE/TE: 5, 15, 23	From Bacteria to Plants	SE/TE: 72-73, 97	Animals	SE/TE: 60-61, 155, 164-165, 186	Cells and Heredity	SE/TE: 82-83, 178	Human Biology and Health	SE/TE: 90, 103, 133, 181, 223	Environmental Science	SE/TE: 5, 40-41, 49, 58, 75, 146, 165	Inside Earth	SE/TE: 106-107	Earth's Changing Surface	SE/TE: 47, 55, 70, 71	Earth's Waters	SE/TE: 18, 40-41	Weather and Climate	SE/TE: 27, 41, 107	Astronomy	SE/TE: 102-103	Chemical Building Blocks	SE/TE: 48, 108, 130	Chemical Interactions	SE/TE: 74, 126	Motion, Forces and Energy	SE/TE: 40-41, 164-165	Electricity and Magnetism	SE/TE: 12-13, 113
The Nature of Science and Technology																															
SE/TE: 5, 15, 23																															
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	Sound and Light
	SE/TE: 16, 53
	The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012
• replication	The Nature of Science and Technology SE/TE: 106-107 From Bacteria to Plants SE/TE: 168-169, 186-187 Cells and Heredity SE/TE: 14-15, 146-147 Human Biology and Health SE/TE: 103 Environmental Science SE/TE: 74-75, 172-173 Inside Earth SE/TE: 106-107 Earth's Changing Surface SE/TE: 46-47, 70-72 Astronomy SE/TE: 134-135 Chemical Interactions SE/TE: 90-91 Motion, Forces and Energy SE/TE: 62-63, 88-89, 164-165, 188-189
• sample size	From Bacteria to Plants SE/TE: 48 Human Biology and Health SE/TE: 54 Environmental Science SE/TE: 21

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<ul style="list-style-type: none"> appropriate use of control 	<p>The Nature of Science and Technology SE/TE: 16, 23, 185</p> <p>From Bacteria to Plants SE/TE: 15, 58-59, 87, 120-121, 185</p> <p>Animals SE/TE: 141, 187</p> <p>Cells and Heredity SE/TE: 54, 179</p> <p>Human Biology and Health SE/TE: 37, 66-67, 152-153, 164-165, 181, 208-209</p> <p>Environmental Science SE/TE: 5, 40-41, 144-145, 183</p> <p>Inside Earth SE/TE: 136-137, 167</p> <p>Earth's Changing Surface SE/TE: 37, 83</p> <p>Earth's Waters SE/TE: 40-41</p> <p>Weather and Climate SE/TE: 117</p> <p>Astronomy SE/TE: 63</p> <p>Chemical Building Blocks SE/TE: 21, 96-97</p> <p>Chemical Interactions SE/TE: 28-29, 83, 90-91, 110-111, 148-149</p> <p>Motion, Forces and Energy SE/TE: 28-29, 35, 40-41, 81, 88-89, 122-123, 145, 164-165</p> <p>Electricity and Magnetism SE/TE: 12-13, 42-43, 52-53, 113</p> <p>Sound and Light SE/TE: 53, 124</p>
	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>

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	The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012
<ul style="list-style-type: none"> • use of standardized variables 	The Nature of Science and Technology SE/TE: 16, 23, 133 From Bacteria to Plants SE/TE: 15, 58-59, 87, 120-121, 185 Animals SE/TE: 141, 187 Cells and Heredity SE/TE: 54, 179 Human Biology and Health SE/TE: 37, 66-67, 152-153, 164-165, 181, 208-209 Environmental Science SE/TE: 5, 40-41, 144-145, 183 Inside Earth SE/TE: 136-137, 167 Earth's Changing Surface SE/TE: 37, 83 Earth's Waters SE/TE: 40-41 Weather and Climate SE/TE: 117 Astronomy SE/TE: 63 Chemical Building Blocks SE/TE: 21, 96-97 Chemical Interactions SE/TE: 28-29, 83, 90-91, 110-111, 148-149 Motion, Forces and Energy SE/TE: 28-29, 35, 40-41, 81, 88-89, 122-123, 145, 164-165 Electricity and Magnetism SE/TE: 12-13, 42-43, 52-53, 113 Sound and Light SE/TE: 53, 124

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012</p>
<p>NS.1.6.3 Compare scientific data using mean, median, mode, and range using SI units</p>	<p>The Nature of Science and Technology SE/TE: 56-57, 139</p> <p>From Bacteria to Plants SE/TE: 191</p> <p>Animals SE/TE: 193</p> <p>Cells and Heredity SE/TE: 185</p> <p>Human Biology and Health SE/TE: 263</p> <p>Environmental Science SE/TE: 207</p> <p>Inside Earth SE/TE: 189</p> <p>Earth's Changing Surface SE/TE: 171</p> <p>Earth's Waters SE/TE: 189</p> <p>Weather and Climate SE/TE: 163</p> <p>Astronomy SE/TE: 175</p> <p>Chemical Building Blocks SE/TE: 169</p> <p>Chemical Interactions SE/TE: 173</p> <p>Motion, Forces and Energy SE/TE: 223</p> <p>Electricity and Magnetism SE/TE: 159</p>

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	Sound and Light
	SE/TE: 159
NS.1.6.4 Construct and interpret scientific data using:	
<ul style="list-style-type: none"> • data tables/charts 	The Nature of Science and Technology
	SE/TE: 56-57, 76, 136
	From Bacteria to Plants
	SE/TE: 15, 58-59, 87, 96-97, 134-135, 168-169
	Animals
	SE/TE: 38-39, 116-117, 187
	Cells and Heredity
	SE/TE: 63, 82-83, 146-147
	Human Biology and Health
	SE/TE: 103, 132-133, 152-153, 164-165, 174-175, 208-209
	Environmental Science
	SE/TE: 21, 69, 80-81, 144, 156-157
	Inside Earth
	SE/TE: 58, 113, 123, 136, 137, 163
	Earth's Changing Surface
	SE/TE: 70-71, 146-147
	Earth's Waters
	SE/TE: 5, 18, 40-41, 66-67, 115
	Weather and Climate
	SE/TE: 15, 26, 35, 40, 91, 116, 129
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SE/TE: 46	
Chemical Building Blocks	
SE/TE: 21, 66-67, 147	
Chemical Interactions	
SE/TE: 54-55, 72-73, 90-91, 110-111	
Motion, Forces and Energy	
SE/TE: 16-17, 28, 40-41, 62-63, 88, 122-123, 136, 156, 165, 188-189	
Electricity and Magnetism	
SE/TE: 20, 42, 58	
Sound and Light	
SE/TE: 24-25, 88-89, 124	

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<ul style="list-style-type: none"> bar and double bar graphs 	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 68-77</p> <p>From Bacteria to Plants SE/TE: 94</p> <p>Animals SE/TE: 30, 46, 105</p> <p>Cells and Heredity SE/TE: 29</p> <p>Human Biology and Health SE/TE: 196</p> <p>Inside Earth SE/TE: 186</p> <p>Earth's Changing Surface SE/TE: 168</p> <p>Earth's Waters SE/TE: 54, 162, 186</p> <p>Weather and Climate SE/TE: 160</p> <p>Astronomy SE/TE: 172</p> <p>Chemical Building Blocks SE/TE: 91</p> <p>Chemical Interactions SE/TE: 170</p> <p>Motion, Forces and Energy SE/TE: 180, 220</p> <p>Electricity and Magnetism SE/TE: 118</p> <p>Sound and Light SE/TE: 66, 156</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>

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	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD PHSchool.com Web Code: cgp-6023, cgd-6023</p>
<p>• line graphs</p>	<p>The Nature of Science and Technology SE/TE: 68-77, 111, 137</p> <p>From Bacteria to Plants SE/TE: 53, 106, 163, 189</p> <p>Animals SE/TE: 141, 153, 191</p> <p>Cells and Heredity SE/TE: 125, 158, 183</p> <p>Human Biology and Health SE/TE: 64, 90, 141, 168, 230, 244, 260</p> <p>Environmental Science SE/TE: 21, 38, 103, 205</p> <p>Inside Earth SE/TE: 12, 119, 187</p> <p>Earth's Changing Surface SE/TE: 44, 70-71, 89, 137, 169</p> <p>Earth's Waters SE/TE: 106, 187</p> <p>Weather and Climate SE/TE: 95, 116-117, 161</p> <p>Astronomy SE/TE: 63, 173</p> <p>Chemical Building Blocks SE/TE: 27, 52, 62, 66-67, 70, 147</p> <p>Chemical Interactions SE/TE: 21, 52, 72-73, 90-91, 170</p> <p>Motion, Forces and Energy SE/TE: 16-17, 62-63, 119, 153, 221</p> <p>Electricity and Magnetism SE/TE: 157</p> <p>Sound and Light SE/TE: 28, 39, 157</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>

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	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD PHSchool.com Web Code: cgp-6023, cgd-6023</p>
<ul style="list-style-type: none"> • stem and leaf plots 	<p>These references can be used to develop objective specific graphing skills. The Nature of Science and Technology SE/TE: 68-77</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023</p>

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• line graphs	The Nature of Science and Technology
	SE/TE: 68-77, 111, 137
	From Bacteria to Plants
	SE/TE: 53, 106, 163, 189
	Animals
	SE/TE: 141, 153, 191
	Cells and Heredity
	SE/TE: 125, 158, 183
	Human Biology and Health
	SE/TE: 64, 90, 141, 168, 230, 244, 260
	Environmental Science
	SE/TE: 21, 38, 103, 205
	Inside Earth
	SE/TE: 12, 119, 187
	Earth's Changing Surface
	SE/TE: 44, 70-71, 89, 137, 169
	Earth's Waters
	SE/TE: 106, 187
	Weather and Climate
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SE/TE: 16-17, 62-63, 119, 153, 221	
Electricity and Magnetism	
SE/TE: 157	
Sound and Light	
SE/TE: 28, 39, 157	
	The Nature of Science and Technology
	TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137
	The Nature of Science and Technology
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NS.1.6.5 Communicate results and conclusions from scientific inquiry	The Nature of Science and Technology
	SE/TE: 23, 35, 56-57, 76, 96, 106-107
	From Bacteria to Plants
	SE/TE: 15, 25, 47, 58-59, 87, 96-97, 120-121, 125, 158-159
	Animals
	SE/TE: 18, 33, 46, 60-61, 84-85, 93, 126-127, 141, 155, 164-165

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>(Continued)</p> <p>Cells and Heredity SE/TE: 14-15, 31, 54, 63, 82-83, 90-91, 122, 129, 146-147, 154</p> <p>Human Biology and Health SE/TE: 29, 36-37, 54, 66-67, 90, 103, 121, 132-133, 152-153, 164-165, 181, 208-209, 222-223, 241</p> <p>Environmental Science SE/TE: 12, 21, 68-69, 74-75, 88, 94, 130-131, 144-145, 172-173, 183</p> <p>Inside Earth SE/TE: 30-31, 37, 58-59, 66-67, 86, 106-107, 123, 136-137, 163, 167</p> <p>Earth's Changing Surface SE/TE: 20, 31, 46-47, 55, 70-71, 82-83, 122, 146-147</p> <p>Earth's Waters SE/TE: 18, 40-41, 56, 66-67, 114-115, 122-123, 140, 165</p> <p>Weather and Climate SE/TE: 15, 26-27, 40-41, 53, 90-91, 99, 116-117, 128-129</p> <p>Astronomy SE/TE: 14-15, 28-29, 46-47, 63, 83, 102-103, 125, 134-135</p> <p>Chemical Building Blocks SE/TE: 21, 34-35, 54, 66, 96, 106-107, 126-127, 147</p> <p>Chemical Interactions SE/TE: 21, 28-29, 54-55, 72-73, 90-91, 110-111, 135, 148-149</p> <p>Motion, Forces and Energy SE/TE: 16-17, 28-29, 40-41, 62-63, 81, 88-89, 122-123, 136-137, 156-157, 164-165</p> <p>Electricity and Magnetism SE/TE: 12-13, 42-43, 52-53, 58-59, 92-93, 113, 130-131</p> <p>Sound and Light SE/TE: 16, 24-25, 53, 57, 88-89, 97-99, 112, 124</p>

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	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012</p>
<p>NS.1.6.6 Develop and implement strategies for long-term, accurate data collection</p>	<p>The Nature of Science and Technology SE/TE: 18, 56-57, 76, 136</p> <p>From Bacteria to Plants SE/TE: 15, 58-59, 87, 96-97, 134-135, 168-169, 185</p> <p>Animals SE/TE: 38-39, 116-117, 187</p> <p>Cells and Heredity SE/TE: 63, 82-83, 146-147</p> <p>Human Biology and Health SE/TE: 103, 132-133, 152-153, 164-165, 174-175, 208-209</p> <p>Environmental Science SE/TE: 21, 69, 80-81, 144, 156-157</p> <p>Inside Earth SE/TE: 58, 113, 123, 136, 137, 163</p> <p>Earth's Changing Surface SE/TE: 70-71, 146-147</p> <p>Earth's Waters SE/TE: 5, 18, 40-41, 66-67, 115</p> <p>Weather and Climate SE/TE: 15, 26, 35, 40, 91, 116, 129</p> <p>Astronomy SE/TE: 46</p> <p>Chemical Building Blocks SE/TE: 21, 66-67, 147</p> <p>Chemical Interactions SE/TE: 54-55, 72-73, 90-91, 110-111</p> <p>Motion, Forces and Energy SE/TE: 16-17, 28, 40-41, 62-63, 88, 122-123, 136, 156, 165, 188-189</p>

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	Electricity and Magnetism
	SE/TE: 20, 42, 58
	Sound and Light
	SE/TE: 24-25, 88-89, 124
NS.1.6.7 Distinguish between scientific fact and opinion	The Nature of Science and Technology SE/TE: 5, 13-22, 23, 24-29
	The Nature of Science and Technology TR: Reading Strategy Transparency(ies): P3; Guided Reading: 55-58, Transparency(ies): P2 Design Your Own Lab: 61-63, 66-68; Section Summary: 54, 65; Review and Reinforce: 59, 69; Enrich: 60, 70
	The Nature of Science and Technology TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgp-6012; www.SciLinks.org Web Code: scn-1613
NS.1.6.8 Explain the role of prediction in the development of a theory	The Nature of Science and Technology SE/TE: 21-22
	The Nature of Science and Technology TR: Guided Reading: 55-58; Transparency(ies): P2; Section Summary: 54; Review and Reinforce: 59; Enrich: 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgp-6012
NS.1.6.9 Define and give examples of laws and theories	The Nature of Science and Technology SE/TE: 21-22 Cells and Heredity SE/TE: 10-11, 76-81, 138-145 Inside Earth SE/TE: 18-22, 25-29, 30-31, 32-36, 37 Astronomy SE/TE: 148-150, 153 Chemical Building Blocks SE/TE: 58, 60-61, 63, 64 Chemical Interactions SE/TE: 6-11 Motion, Forces, and Energy SE/TE: 19-21, 51-54, 55-61, 162

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	Electricity and Magnetism
	SE/TE: 80
	Sound and Light
	SE/TE: 18
	<p>The Nature of Science and Technology TR: Guided Reading: 55-58; Transparency(ies): P2; Section Summary: 54; Review and Reinforce: 59; Enrich: 60</p> <p>Cells and Heredity TR: Reading Strategy Transparency(ies): C24, 40; Guided Reading: 175-177, 295-297; Transparency(ies): C25; Skills Lab: 180-182, 300-302; Section Summary: 174, 294; Review and Reinforce: 178, 298; Enrich: 179, 299</p> <p>Inside Earth TR: Reading Strategy Transparency(ies): F5, 7; Guided Reading: 62-63, 68-69, 79-81; Transparency(ies): F8, 9, 10-12; Skills Lab: 73-76, 84-85; Section Summary: 61, 67, 78; Review and Reinforce: 64, 71, 82; Enrich: 65, 72, 83</p> <p>Astronomy TR: Reading Strategy Transparency(ies): J45; Guided Reading: 286-287; Transparency(ies): J46, 47; Section Summary: 285; Review and Reinforce: 288; Enrich: 289</p> <p>Chemical Interactions TR: Reading Strategy Transparency(ies): L1; Guided Reading: 47-48; Transparency(ies): L2-3; Section Summary: 46; Review and Reinforce: 49; Enrich: 50</p> <p>Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M15, 17; Guided Reading: 123-124, 129-130; Transparency(ies): M18-19; Skills Lab: 133-135; Section Summary: 122, 128; Review and Reinforce: 125, 131; Enrich: 126, 132</p>
	<p>Cells and Heredity TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0311, scn-0351; PHSchool.com Web Code: ced-3031</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Chemical Interactions
	TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-2011
	Motion, Forces, and Energy
	TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-3023, cgp-3024
GRADE 7	
NS.1.7.1 Interpret evidence based on observations	The Nature of Science and Technology
	SE/TE: 6-7, 12, 35, 56-57, 96
	From Bacteria to Plants
	SE/TE: 5, 15, 25, 58-59, 87, 102-103, 120-121, 125, 134-135, 158-159
	Animals
	SE/TE: 5, 33, 38-39, 60-61, 93, 116-117, 126- 127, 146-147, 164-165
	Cells and Heredity
	SE/TE: 5, 15, 31, 42-43, 82-83, 146-147, 174
	Human Biology and Health
	SE/TE: 5, 29, 36-37, 42-43, 121, 132-133, 152- 153, 164-165, 174-175, 208-209, 214-215, 223
	Environmental Science
	SE/TE: 5, 12, 40-41, 68-69, 74-75, 80-81, 88, 94, 130-131, 144-145, 156-157
	Inside Earth
	SE/TE: 37, 66, 106-107, 113, 136, 140, 163
	Earth's Changing Surface
	SE/TE: 20, 55, 82, 83, 122
Earth's Waters	
SE/TE: 18, 40-41, 47, 56, 66-67, 122-123, 165	
Weather and Climate	
SE/TE: 5, 15, 26, 99, 108, 117	
Astronomy	
SE/TE: 14-15, 28-29, 46-47, 117	
Chemical Building Blocks	
SE/TE: 34-35, 73, 96-97	
Chemical Interactions	
SE/TE: 54-55, 72-73, 135	

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	Motion, Forces and Energy
	SE/TE: 40-41, 188-189
	Electricity and Magnetism
	SE/TE: 12-13, 42-43, 52-53, 79, 92-93, 107, 130-131
	Sound and Light
	SE/TE: 24-25, 53, 88-89, 97-99, 112, 124
	The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD PHSchool.com Web Code: cgd-6011, cgp-6012

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NS.1.7.2 Analyze components of experimental design used to produce empirical evidence:	
<ul style="list-style-type: none"> hypothesis 	The Nature of Science and Technology
	SE/TE: 5, 15, 23
	From Bacteria to Plants
	SE/TE: 72-73, 97
	Animals
	SE/TE: 60-61, 155, 164-165, 186
	Cells and Heredity
	SE/TE: 82-83, 178
	Human Biology and Health
	SE/TE: 90, 103, 133, 181, 223
	Environmental Science
	SE/TE: 5, 40-41, 49, 58, 75, 146, 165
	Inside Earth
	SE/TE: 106-107
	Earth's Changing Surface
	SE/TE: 47, 55, 70, 71
	Earth's Waters
	SE/TE: 18, 40-41
	Weather and Climate
	SE/TE: 27, 41, 107
	Astronomy
SE/TE: 102-103	
Chemical Building Blocks	
SE/TE: 48, 108, 130	
Chemical Interactions	
SE/TE: 74, 126	
Motion, Forces and Energy	
SE/TE: 40-41, 164-165	
Electricity and Magnetism	
SE/TE: 12-13, 113	
Sound and Light	
SE/TE: 16, 53	
	The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60

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	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012
<ul style="list-style-type: none"> replication 	The Nature of Science and Technology SE/TE: 106-107 From Bacteria to Plants SE/TE: 168-169, 186-187 Cells and Heredity SE/TE: 14-15, 146-147 Human Biology and Health SE/TE: 103 Environmental Science SE/TE: 74-75, 172-173 Inside Earth SE/TE: 106-107 Earth's Changing Surface SE/TE: 46-47, 70-72 Astronomy SE/TE: 134-135 Chemical Interactions SE/TE: 90-91 Motion, Forces and Energy SE/TE: 62-63, 88-89, 164-165, 188-189
<ul style="list-style-type: none"> sample size 	From Bacteria to Plants SE/TE: 48 Human Biology and Health SE/TE: 54 Environmental Science SE/TE: 21

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<ul style="list-style-type: none"> appropriate use of control 	<p>The Nature of Science and Technology SE/TE: 16, 23, 185</p> <p>From Bacteria to Plants SE/TE: 15, 58-59, 87, 120-121, 185</p> <p>Animals SE/TE: 141, 187</p> <p>Cells and Heredity SE/TE: 54, 179</p> <p>Human Biology and Health SE/TE: 37, 66-67, 152-153, 164-165, 181, 208-209</p> <p>Environmental Science SE/TE: 5, 40-41, 144-145, 183</p> <p>Inside Earth SE/TE: 136-137, 167</p> <p>Earth's Changing Surface SE/TE: 37, 83</p> <p>Earth's Waters SE/TE: 40-41</p> <p>Weather and Climate SE/TE: 117</p> <p>Astronomy SE/TE: 63</p> <p>Chemical Building Blocks SE/TE: 21, 96-97</p> <p>Chemical Interactions SE/TE: 28-29, 83, 90-91, 110-111, 148-149</p> <p>Motion, Forces and Energy SE/TE: 28-29, 35, 40-41, 81, 88-89, 122-123, 145, 164-165</p> <p>Electricity and Magnetism SE/TE: 12-13, 42-43, 52-53, 113</p> <p>Sound and Light SE/TE: 53, 124</p>
	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>

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	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012
<ul style="list-style-type: none"> • use of standardized variables 	The Nature of Science and Technology SE/TE: 16, 23, 133 From Bacteria to Plants SE/TE: 15, 58-59, 87, 120-121, 185 Animals SE/TE: 141, 187 Cells and Heredity SE/TE: 54, 179 Human Biology and Health SE/TE: 37, 66-67, 152-153, 164-165, 181, 208-209 Environmental Science SE/TE: 5, 40-41, 144-145, 183 Inside Earth SE/TE: 136-137, 167 Earth's Changing Surface SE/TE: 37, 83 Earth's Waters SE/TE: 40-41 Weather and Climate SE/TE: 117 Astronomy SE/TE: 63 Chemical Building Blocks SE/TE: 21, 96-97 Chemical Interactions SE/TE: 28-29, 83, 90-91, 110-111, 148-149 Motion, Forces and Energy SE/TE: 28-29, 35, 40-41, 81, 88-89, 122-123, 145, 164-165 Electricity and Magnetism SE/TE: 12-13, 42-43, 52-53, 113 Sound and Light SE/TE: 53, 124

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	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012</p>
<p>NS.1.7.3 Interpret scientific data using mean, median, mode, and range using SI units</p>	<p>The Nature of Science and Technology SE/TE: 56-57, 139</p> <p>From Bacteria to Plants SE/TE: 191</p> <p>Animals SE/TE: 193</p> <p>Cells and Heredity SE/TE: 185</p> <p>Human Biology and Health SE/TE: 263</p> <p>Environmental Science SE/TE: 207</p> <p>Inside Earth SE/TE: 189</p> <p>Earth's Changing Surface SE/TE: 171</p> <p>Earth's Waters SE/TE: 189</p> <p>Weather and Climate SE/TE: 163</p> <p>Astronomy SE/TE: 175</p> <p>Chemical Building Blocks SE/TE: 169</p> <p>Chemical Interactions SE/TE: 173</p> <p>Motion, Forces and Energy SE/TE: 223</p> <p>Electricity and Magnetism SE/TE: 159</p> <p>Sound and Light SE/TE: 159</p>

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NS.1.7.4 Construct and interpret scientific data using:	
• histograms	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 68-77</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023</p>
• circle graphs	<p>The Nature of Science and Technology SE/TE: 9, 68, 138</p> <p>From Bacteria to Plants SE/TE: 19, 190</p> <p>Animals SE/TE: 56, 137, 192</p> <p>Cells and Heredity SE/TE: 60, 184</p> <p>Human Biology and Health SE/TE: 96, 113, 262</p> <p>Environmental Science SE/TE: 125, 163, 206</p> <p>Inside Earth SE/TE: 89, 150, 188</p> <p>Earth's Changing Surface SE/TE: 170</p> <p>Earth's Waters SE/TE: 36, 188</p> <p>Weather and Climate SE/TE: 162</p> <p>Astronomy SE/TE: 174</p> <p>Chemical Interactions SE/TE: 172</p> <p>Motion, Forces and Energy SE/TE: 168, 222</p>

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	Electricity and Magnetism
	SE/TE: 159
	Sound and Light
	SE/TE: 158
<ul style="list-style-type: none"> • scatter plots 	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 68-77</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023</p>
<ul style="list-style-type: none"> • double line graphs 	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 23, 68-77</p> <p>From Bacteria to Plants SE/TE: 163</p> <p>Animals SE/TE: 153</p> <p>Cells and Heredity SE/TE: 158</p> <p>Human Biology and Health SE/TE: 168</p> <p>Environmental Science SE/TE: 27, 67, 149</p> <p>Inside Earth SE/TE: 56</p> <p>Chemical Building Blocks SE/TE: 91</p> <p>Chemical Interactions SE/TE: 170</p> <p>Motion, Forces and Energy SE/TE: 180, 220</p>

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	Electricity and Magnetism
	SE/TE: 118, 156
	Sound and Light
	SE/TE: 66, 156
	The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137
	The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023
<ul style="list-style-type: none"> line graphs by approximating line of best fit 	The Nature of Science and Technology SE/TE: 68-77, 111, 137 From Bacteria to Plants SE/TE: 53, 106, 163, 189 Animals SE/TE: 141, 153, 191 Cells and Heredity SE/TE: 125, 158, 183 Human Biology and Health SE/TE: 64, 90, 141, 168, 230, 244, 260 Environmental Science SE/TE: 21, 38, 103, 205 Inside Earth SE/TE: 12, 119, 187 Earth's Changing Surface SE/TE: 44, 70-71, 89, 137, 169 Earth's Waters SE/TE: 106, 187 Weather and Climate SE/TE: 95, 116-117, 161 Astronomy SE/TE: 63, 173 Chemical Building Blocks SE/TE: 27, 52, 62, 66-67, 70, 147 Chemical Interactions SE/TE: 21, 52, 72-73, 90-91, 170

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	Motion, Forces and Energy
	SE/TE: 16-17, 62-63, 119, 153, 221
	Electricity and Magnetism
	SE/TE: 157
	Sound and Light
	SE/TE: 28, 39, 157
	The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137
	The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023
NS.1.7.5 Communicate results and conclusions from scientific inquiry	The Nature of Science and Technology
	SE/TE: 23, 35, 56-57, 76, 96, 106-107
	From Bacteria to Plants
	SE/TE: 15, 25, 47, 58-59, 87, 96-97, 120-121, 125, 158-159
	Animals
	SE/TE: 18, 33, 46, 60-61, 84-85, 93, 126-127, 141, 155, 164-165
	Cells and Heredity
	SE/TE: 14-15, 31, 54, 63, 82-83, 90-91, 122, 129, 146-147, 154
	Human Biology and Health
	SE/TE: 29, 36-37, 54, 66-67, 90, 103, 121, 132-133, 152-153, 164-165, 181, 208-209, 222-223, 241
	Environmental Science
SE/TE: 12, 21, 68-69, 74-75, 88, 94, 130-131, 144-145, 172-173, 183	
Chemical Building Blocks	
SE/TE: 21, 34-35, 54, 66, 96, 106-107, 126-127, 147	
Chemical Interactions	
SE/TE: 21, 28-29, 54-55, 72-73, 90-91, 110-111, 135, 148-149	
Motion, Forces and Energy	
SE/TE: 16-17, 28-29, 40-41, 62-63, 81, 88-89, 122-123, 136-137, 156-157, 164-165	

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	Sound and Light
	SE/TE: 16, 24-25, 53, 57, 88-89, 97-99, 112, 124
	The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012

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NS.1.7.6 Develop and implement strategies for long-term, accurate data collection	The Nature of Science and Technology
	SE/TE: 18, 56-57, 76, 136
	From Bacteria to Plants
	SE/TE: 15, 58-59, 87, 96-97, 134-135, 168-169, 185
	Animals
	SE/TE: 38-39, 116-117, 187
	Cells and Heredity
	SE/TE: 63, 82-83, 146-147
	Human Biology and Health
	SE/TE: 103, 132-133, 152-153, 164-165, 174-175, 208-209
	Environmental Science
	SE/TE: 21, 69, 80-81, 144, 156-157
	Inside Earth
	SE/TE: 58, 113, 123, 136, 137, 163
	Earth's Changing Surface
	SE/TE: 70-71, 146-147
	Earth's Waters
	SE/TE: 5, 18, 40-41, 66-67, 115
	Weather and Climate
	SE/TE: 15, 26, 35, 40, 91, 116, 129
	Astronomy
	SE/TE: 46
	Chemical Building Blocks
	SE/TE: 21, 66-67, 147
Chemical Interactions	
SE/TE: 54-55, 72-73, 90-91, 110-111	
Motion, Forces and Energy	
SE/TE: 16-17, 28, 40-41, 62-63, 88, 122-123, 136, 156, 165, 188-189	
Electricity and Magnetism	
SE/TE: 20, 42, 58	
Sound and Light	
SE/TE: 24-25, 88-89, 124	

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NS.1.7.7 Distinguish between questions that can and cannot be answered by science	The Nature of Science and Technology
	SE/TE: 5, 6-12, 13-22, 23, 24-29, 35, 36-37, 56-57, 76, 96, 106-107
	From Bacteria to Plants
	SE/TE: 15, 25, 47, 58-59, 87, 96-97, 120-121, 125, 158-159
	Animals
	SE/TE: 18, 33, 46, 60-61, 84-85, 93, 126-127, 141, 155, 164-165
	Cells and Heredity
	SE/TE: 14-15, 31, 54, 63, 82-83, 90-91, 122, 129, 146-147, 154
	Human Biology and Health
	SE/TE: 29, 36-37, 54, 66-67, 90, 103, 121, 132-133, 152-153, 164-165, 181, 208-209, 222-223, 241
	Environmental Science
	SE/TE: 12, 21, 68-69, 74-75, 88, 94, 130-131, 144-145, 172-173, 183
	Inside Earth
	SE/TE: 30-31, 37, 58-59, 66-67, 86, 106-107, 123, 136-137, 163, 167
	Earth's Changing Surface
	SE/TE: 20, 31, 46-47, 55, 70-71, 82-83, 122, 146-147
Earth's Waters	
SE/TE: 18, 40-41, 56, 66-67, 114-115, 122-123, 140, 165	
Weather and Climate	
SE/TE: 15, 26-27, 40-41, 53, 90-91, 99, 116-117, 128-129	
Astronomy	
SE/TE: 14-15, 28-29, 46-47, 63, 83, 102-103, 125, 134-135	
Chemical Building Blocks	
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Chemical Interactions	
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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Electricity and Magnetism
	SE/TE: 12-13, 42-43, 52-53, 58-59, 92-93, 113, 130-131
	Sound and Light
	SE/TE: 16, 24-25, 53, 57, 88-89, 97-99, 112, 124
	The Nature of Science and Technology TR: Transparency(ies): P1, 3; Guided Reading: 47-50, 55-58, 66-68; Transparency(ies): P2; Section Summary: 46, 54, 65; Review and Reinforce: 51, 59, 69; Enrich: 52, 60, 70
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012; www.SciLinks.org Web Code: scn-1613
NS.1.7.8 Explain the role of testability and modification in the development of a theory	The Nature of Science and Technology SE/TE: 21-22
	The Nature of Science and Technology TR: Guided Reading: 55-58; Transparency(ies): P2; Section Summary: 54; Review and Reinforce: 59; Enrich: 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgp-6012
NS.1.7.9 Compare and contrast hypotheses, laws, and theories	The Nature of Science and Technology SE/TE: 13-22
	The Nature of Science and Technology TR: Guided Reading: 55-58; Design Your Own: 61-63; Transparency(ies): P2; Section Summary: 54; Review and Reinforce: 59; Enrich: 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6012

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(Grades 5-8)

ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
GRADE 8	
NS.1.8.1 Justify conclusions based on appropriate and unbiased observations	The Nature of Science and Technology
	SE/TE: 7, 12, 35, 56-57, 96
	From Bacteria to Plants
	SE/TE: 5, 15, 25, 58-59, 87, 102-103, 120-121, 125, 134-135, 158-159
	Animals
	SE/TE: 5, 33, 38-39, 60-61, 93, 116-117, 126-127, 146-147, 164-165
	Cells and Heredity
	SE/TE: 5, 15, 31, 42-43, 82-83, 146-147, 174
	Human Biology and Health
	SE/TE: 5, 29, 36-37, 42-43, 121, 132-133, 152-153, 164-165, 174-175, 208-209, 214-215, 223
	Environmental Science
	SE/TE: 5, 12, 40-41, 68-69, 74-75, 80-81, 88, 94, 130-131, 144-145, 156-157
	Inside Earth
	SE/TE: 37, 66, 106-107, 113, 136, 140, 163
	Earth's Changing Surface
	SE/TE: 20, 55, 82, 83, 122
	Earth's Waters
SE/TE: 18, 40-41, 47, 56, 66-67, 122-123, 165	
Weather and Climate	
SE/TE: 5, 15, 26, 99, 108, 117	
Astronomy	
SE/TE: 14-15, 28-29, 46-47, 117	
Chemical Building Blocks	
SE/TE: 34-35, 73, 96-97	
Chemical Interactions	
SE/TE: 54-55, 72-73, 135	
Motion, Forces and Energy	
SE/TE: 40-41, 188-189	
Electricity and Magnetism	
SE/TE: 12-13, 42-43, 52-53, 79, 92-93, 107, 130-131	
Sound and Light	
SE/TE: 24-25, 53, 88-89, 97-99, 112, 124	

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))																																
	The Nature of Science and Technology TR: Reading Strategy Transparency(ies): P1; Guided Reading: 47-50; Section Summary: 46; Review and Reinforce: 51; Enrich: 52																																
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011																																
NS.1.8.2 Evaluate the merits of empirical evidence based on experimental design:																																	
<ul style="list-style-type: none"> hypothesis 	<table border="1"> <tbody> <tr> <td>The Nature of Science and Technology</td> </tr> <tr> <td>SE/TE: 5, 15, 23</td> </tr> <tr> <td>From Bacteria to Plants</td> </tr> <tr> <td>SE/TE: 72-73, 97</td> </tr> <tr> <td>Animals</td> </tr> <tr> <td>SE/TE: 60-61, 155, 164-165, 186</td> </tr> <tr> <td>Cells and Heredity</td> </tr> <tr> <td>SE/TE: 82-83, 178</td> </tr> <tr> <td>Human Biology and Health</td> </tr> <tr> <td>SE/TE: 90, 103, 133, 181, 223</td> </tr> <tr> <td>Environmental Science</td> </tr> <tr> <td>SE/TE: 5, 40-41, 49, 58, 75, 146, 165</td> </tr> <tr> <td>Inside Earth</td> </tr> <tr> <td>SE/TE: 106-107</td> </tr> <tr> <td>Earth's Changing Surface</td> </tr> <tr> <td>SE/TE: 47, 55, 70, 71</td> </tr> <tr> <td>Earth's Waters</td> </tr> <tr> <td>SE/TE: 18, 40-41</td> </tr> <tr> <td>Weather and Climate</td> </tr> <tr> <td>SE/TE: 27, 41, 107</td> </tr> <tr> <td>Astronomy</td> </tr> <tr> <td>SE/TE: 102-103</td> </tr> <tr> <td>Chemical Building Blocks</td> </tr> <tr> <td>SE/TE: 48, 108, 130</td> </tr> <tr> <td>Chemical Interactions</td> </tr> <tr> <td>SE/TE: 74, 126</td> </tr> <tr> <td>Motion, Forces and Energy</td> </tr> <tr> <td>SE/TE: 40-41, 164-165</td> </tr> <tr> <td>Electricity and Magnetism</td> </tr> <tr> <td>SE/TE: 12-13, 113</td> </tr> <tr> <td>Sound and Light</td> </tr> <tr> <td>SE/TE: 16, 53</td> </tr> </tbody> </table>	The Nature of Science and Technology	SE/TE: 5, 15, 23	From Bacteria to Plants	SE/TE: 72-73, 97	Animals	SE/TE: 60-61, 155, 164-165, 186	Cells and Heredity	SE/TE: 82-83, 178	Human Biology and Health	SE/TE: 90, 103, 133, 181, 223	Environmental Science	SE/TE: 5, 40-41, 49, 58, 75, 146, 165	Inside Earth	SE/TE: 106-107	Earth's Changing Surface	SE/TE: 47, 55, 70, 71	Earth's Waters	SE/TE: 18, 40-41	Weather and Climate	SE/TE: 27, 41, 107	Astronomy	SE/TE: 102-103	Chemical Building Blocks	SE/TE: 48, 108, 130	Chemical Interactions	SE/TE: 74, 126	Motion, Forces and Energy	SE/TE: 40-41, 164-165	Electricity and Magnetism	SE/TE: 12-13, 113	Sound and Light	SE/TE: 16, 53
The Nature of Science and Technology																																	
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Sound and Light																																	
SE/TE: 16, 53																																	

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012
<ul style="list-style-type: none"> replication 	The Nature of Science and Technology SE/TE: 106-107 From Bacteria to Plants SE/TE: 168-169, 186-187 Cells and Heredity SE/TE: 14-15, 146-147 Human Biology and Health SE/TE: 103 Environmental Science SE/TE: 74-75, 172-173 Inside Earth SE/TE: 106-107 Earth's Changing Surface SE/TE: 46-47, 70-72 Astronomy SE/TE: 134-135 Chemical Interactions SE/TE: 90-91 Motion, Forces and Energy SE/TE: 62-63, 88-89, 164-165, 188-189
<ul style="list-style-type: none"> sample size 	From Bacteria to Plants SE/TE: 48 Human Biology and Health SE/TE: 54 Environmental Science SE/TE: 21

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• appropriate use of control	The Nature of Science and Technology
	SE/TE: 16, 23, 185
	From Bacteria to Plants
	SE/TE: 15, 58-59, 87, 120-121, 185
	Animals
	SE/TE: 141, 187
	Cells and Heredity
	SE/TE: 54, 179
	Human Biology and Health
	SE/TE: 37, 66-67, 152-153, 164-165, 181, 208-209
	Environmental Science
	SE/TE: 5, 40-41, 144-145, 183
	Inside Earth
	SE/TE: 136-137, 167
	Earth's Changing Surface
	SE/TE: 37, 83
	Earth's Waters
	SE/TE: 40-41
	Weather and Climate
	SE/TE: 117
Astronomy	
SE/TE: 63	
Chemical Building Blocks	
SE/TE: 21, 96-97	
Chemical Interactions	
SE/TE: 28-29, 83, 90-91, 110-111, 148-149	
Motion, Forces and Energy	
SE/TE: 28-29, 35, 40-41, 81, 88-89, 122-123, 145, 164-165	
Electricity and Magnetism	
SE/TE: 12-13, 42-43, 52-53, 113	
Sound and Light	
SE/TE: 53, 124	
	The Nature of Science and Technology
	TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012</p>
<ul style="list-style-type: none"> • use of standardized independent and dependent variables 	<p>The Nature of Science and Technology SE/TE: 16, 23, 133</p> <p>From Bacteria to Plants SE/TE: 15, 58-59, 87, 120-121, 185</p> <p>Animals SE/TE: 141, 187</p> <p>Cells and Heredity SE/TE: 54, 179</p> <p>Human Biology and Health SE/TE: 37, 66-67, 152-153, 164-165, 181, 208-209</p> <p>Environmental Science SE/TE: 5, 40-41, 144-145, 183</p> <p>Inside Earth SE/TE: 136-137, 167</p> <p>Earth's Changing Surface SE/TE: 37, 83</p> <p>Earth's Waters SE/TE: 40-41</p> <p>Weather and Climate SE/TE: 117</p> <p>Astronomy SE/TE: 63</p> <p>Chemical Building Blocks SE/TE: 21, 96-97</p> <p>Chemical Interactions SE/TE: 28-29, 83, 90-91, 110-111, 148-149</p> <p>Motion, Forces and Energy SE/TE: 28-29, 35, 40-41, 81, 88-89, 122-123, 145, 164-165</p> <p>Electricity and Magnetism SE/TE: 12-13, 42-43, 52-53, 113</p> <p>Sound and Light SE/TE: 53, 124</p>

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	<p>The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012</p>
<p>NS.1.8.3 Formulate a testable problem using experimental design</p>	<p>The Nature of Science and Technology SE/TE: 106-107</p> <p>From Bacteria to Plants SE/TE: 168-169</p> <p>Animals SE/TE: 5, 155</p> <p>Cells and Heredity SE/TE: 14-15, 54</p> <p>Human Biology and Health SE/TE: 36-37, 181, 222-223</p> <p>Environmental Science SE/TE: 144-145, 172-173</p> <p>Inside Earth SE/TE: 123, 137, 167</p> <p>Earth's Changing Surface SE/TE: 37, 47, 55, 65, 71, 83</p> <p>Earth's Waters SE/TE: 5, 40-41, 47, 56, 114-115, 123</p> <p>Weather and Climate SE/TE: 27, 41, 117</p> <p>Astronomy SE/TE: 47, 102-103</p> <p>Chemical Building Blocks SE/TE: 35, 54, 66-67, 73, 117</p> <p>Chemical Interactions SE/TE: 29, 73, 83, 90-91, 110-111, 148-149</p> <p>Motion, Forces and Energy SE/TE: 17, 41, 63, 81, 89, 123, 157, 165, 175, 189</p> <p>Electricity and Magnetism SE/TE: 20-21, 43, 59, 93, 113, 131</p>

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	Sound and Light
	SE/TE: 16, 53, 57, 89, 99, 112
	The Nature of Science and Technology TR: Transparency(ies): P1; Guided Reading: 47-50, 55-58; Transparency(ies): P2; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012
NS.1.8.4 Analyze a set of scientific data using mean, median, mode, and range using SI units	The Nature of Science and Technology SE/TE: 56-57, 139 From Bacteria to Plants SE/TE: 191 Animals SE/TE: 193 Cells and Heredity SE/TE: 185 Human Biology and Health SE/TE: 263 Environmental Science SE/TE: 207 Inside Earth SE/TE: 189 Earth's Changing Surface SE/TE: 171 Earth's Waters SE/TE: 189 Weather and Climate SE/TE: 163 Astronomy SE/TE: 175 Chemical Building Blocks SE/TE: 169 Chemical Interactions SE/TE: 173 Motion, Forces and Energy SE/TE: 223 Electricity and Magnetism SE/TE: 159

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	Sound and Light
	SE/TE: 159
NS.1.8.5 Suggest solutions to real world problems by analyzing scientific data in:	
<ul style="list-style-type: none"> • data tables/charts 	The Nature of Science and Technology
	SE/TE: 56-57, 76, 136
	From Bacteria to Plants
	SE/TE: 15, 58-59, 87, 96-97, 134-135, 168-169
	Animals
	SE/TE: 38-39, 116-117, 187
	Cells and Heredity
	SE/TE: 63, 82-83, 146-147
	Human Biology and Health
	SE/TE: 103, 132-133, 152-153, 164-165, 174-175, 208-209
	Environmental Science
	SE/TE: 21, 69, 80-81, 144, 156-157
	Inside Earth
	SE/TE: 58, 113, 123, 136, 137, 163
	Earth's Changing Surface
	SE/TE: 70-71, 146-147
	Earth's Waters
	SE/TE: 5, 18, 40-41, 66-67, 115
	Weather and Climate
	SE/TE: 15, 26, 35, 40, 91, 116, 129
	Astronomy
SE/TE: 46	
Chemical Building Blocks	
SE/TE: 21, 66-67, 147	
Chemical Interactions	
SE/TE: 54-55, 72-73, 90-91, 110-111	
Motion, Forces and Energy	
SE/TE: 16-17, 28, 40-41, 62-63, 88, 122-123, 136, 156, 165, 188-189	
Electricity and Magnetism	
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SE/TE: 24-25, 88-89, 124	

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<ul style="list-style-type: none"> histograms 	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 68-77</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023</p>
<ul style="list-style-type: none"> circle graphs 	<p>The Nature of Science and Technology SE/TE: 9, 68, 138</p> <p>From Bacteria to Plants SE/TE: 19, 190</p> <p>Animals SE/TE: 56, 137, 192</p> <p>Cells and Heredity SE/TE: 60, 184</p> <p>Human Biology and Health SE/TE: 113, 262</p> <p>Environmental Science SE/TE: 125, 163, 206</p> <p>Inside Earth SE/TE: 89, 150, 188</p> <p>Earth's Changing Surface SE/TE: 170</p> <p>Earth's Waters SE/TE: 36, 188</p> <p>Weather and Climate SE/TE: 162</p> <p>Astronomy SE/TE: 174</p> <p>Chemical Building Blocks SE/TE: 168</p> <p>Chemical Interactions SE/TE: 172</p> <p>Motion, Forces and Energy SE/TE: 164-165, 168, 222</p>

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	Electricity and Magnetism
	SE/TE: 159
	Sound and Light
	SE/TE: 158
<ul style="list-style-type: none"> scatter plots 	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 68-77</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023</p>
<ul style="list-style-type: none"> stem and leaf plots 	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 68-77</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023</p>

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<ul style="list-style-type: none"> line and double line 	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 23, 68-77, 111</p> <p>From Bacteria to Plants SE/TE: 53, 106, 163</p> <p>Animals SE/TE: 153</p> <p>Cells and Heredity SE/TE: 125, 158</p> <p>Human Biology and Health SE/TE: 64, 168, 230</p> <p>Environmental Science SE/TE: 27, 67, 203, 149</p> <p>Inside Earth SE/TE: 12, 119, 187</p> <p>Earth's Changing Surface SE/TE: 44, 70-71, 89, 137, 169</p> <p>Earth's Waters SE/TE: 106, 187</p> <p>Weather and Climate SE/TE: 95, 116-117, 161</p> <p>Astronomy SE/TE: 63, 173</p> <p>Chemical Building Blocks SE/TE: 27, 52, 62, 66-67, 70, 147</p> <p>Chemical Interactions SE/TE: 21, 52, 72-73, 90-91, 170</p> <p>Motion, Forces and Energy SE/TE: 16-17, 62-63, 119, 153, 221</p> <p>Electricity and Magnetism SE/TE: 157</p> <p>Sound and Light SE/TE: 28, 39, 157</p>
	<p>The Nature of Science and Technology TR: Guided Reading: 132-135; Transparency(ies): P22-P25; Skills Lab: 138-139; Section Summary: 131; Review and Reinforce: 136; Enrich: 137</p>

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	<p>The Nature of Science and Technology</p> <p>TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023</p>
<ul style="list-style-type: none"> graphs by approximating line of best fit 	<p>These references can be used to develop objective specific graphing skills.</p> <p>The Nature of Science and Technology SE/TE: 23, 68-77, 111</p> <p>From Bacteria to Plants SE/TE: 53, 106, 163</p> <p>Animals SE/TE: 153</p> <p>Cells and Heredity SE/TE: 125, 158</p> <p>Human Biology and Health SE/TE: 64, 230</p> <p>Environmental Science SE/TE: 103</p> <p>Inside Earth SE/TE: 12, 119, 187</p> <p>Earth's Changing Surface SE/TE: 44, 70-71, 89, 137, 169</p> <p>Earth's Waters SE/TE: 106, 187</p> <p>Weather and Climate SE/TE: 95, 116-117, 161</p> <p>Astronomy SE/TE: 63, 173</p> <p>Chemical Building Blocks SE/TE: 27, 52, 62, 66-67, 70, 147</p> <p>Chemical Interactions SE/TE: 21, 52, 72-73, 90-91, 170</p> <p>Motion, Forces and Energy SE/TE: 16-17, 62-63, 119, 153, 221</p> <p>Electricity and Magnetism SE/TE: 157</p> <p>Sound and Light SE/TE: 28, 39, 157</p>

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	The Nature of Science and Technology TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-6023, cgd-6023
NS.1.8.6 Formulate inferences based on scientific data	The Nature of Science and Technology
	SE/TE: 8, 12, 35, 96, 128
	From Bacteria to Plants
	SE/TE: 5, 25, 58-59, 96-97, 125, 158-159
	Animals
	SE/TE: 60-61, 93, 164-165
	Cells and Heredity
	SE/TE: 31, 74-75, 129
	Human Biology and Health
	SE/TE: 67, 90, 110-111, 181
	Environmental Science
	SE/TE: 12, 68-69, 74-75, 80-81, 88, 94, 114-115
	Inside Earth
	SE/TE: 37, 59, 86, 107, 163
	Earth's Changing Surface
	SE/TE: 20, 55, 122
	Earth's Waters
	SE/TE: 18, 66-67, 122-123, 140, 165
	Weather and Climate
	SE/TE: 27, 91, 129
Astronomy	
SE/TE: 14-15, 28, 46-47, 83, 125, 134-135	
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SE/TE: 34-35, 54, 106-107	
Chemical Interactions	
SE/TE: 28-29, 110-111, 148-149	
Motion, Forces and Energy	
SE/TE: 40-41, 164-165, 182	
Electricity and Magnetism	
SE/TE: 20-21, 42-43, 58-59, 92-93	

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	Sound and Light
	SE/TE: 88-89, 112
	The Nature of Science and Technology TR: Reading Strategy Transparency(ies): P1; Guided Reading: 47-50; Section Summary: 46; Review and Reinforce: 51; Enrich: 52
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011
NS.1.8.7 Communicate results and conclusions from scientific inquiry following peer review	The Nature of Science and Technology
	SE/TE: 20-21, 129
	From Bacteria to Plants
	SE/TE: 125
	Animals
	SE/TE: 46, 155
	Weather and Climate
	The Nature of Science and Technology TECH: PHSchool.com Web Code: cgp-6012

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NS.1.8.8 Develop and implement strategies for long-term, accurate data collection	The Nature of Science and Technology
	SE/TE: 56-57, 76, 136
	From Bacteria to Plants
	SE/TE: 15, 58-59, 87, 96-97, 134-135, 168-169
	Animals
	SE/TE: 38-39, 116-117, 187
	Cells and Heredity
	SE/TE: 63, 82-83, 146-147
	Human Biology and Health
	SE/TE: 103, 132-133, 152-153, 164-165, 174-175, 208-209
	Environmental Science
	SE/TE: 21, 69, 80-81, 144, 156-157
	Inside Earth
	SE/TE: 58, 113, 123, 136, 137, 163
	Earth's Changing Surface
	SE/TE: 70-71, 146-147
	Earth's Waters
	SE/TE: 5, 18, 40-41, 66-67, 115
	Weather and Climate
	SE/TE: 15, 26, 35, 40, 91, 116, 129
Astronomy	
SE/TE: 46	
Chemical Building Blocks	
SE/TE: 21, 66-67, 147	
Chemical Interactions	
SE/TE: 54-55, 72-73, 90-91, 110-111	
Motion, Forces and Energy	
SE/TE: 16-17, 28, 40-41, 62-63, 88, 122-123, 136, 156, 165, 188-189	
Electricity and Magnetism	
SE/TE: 20, 42, 58	
Sound and Light	
SE/TE: 24-25, 88-89, 124	

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
NS.1.8.9 Generate questions that can and cannot be answered by science	The Nature of Science and Technology
	SE/TE: 5, 6-12, 13-22, 23, 24-29, 35, 36-37, 56-57, 76, 96, 106-107
	From Bacteria to Plants
	SE/TE: 15, 25, 47, 58-59, 87, 96-97, 120-121, 125, 158-159
	Animals
	SE/TE: 18, 33, 46, 60-61, 84-85, 93, 126-127, 141, 155, 164-165
	Cells and Heredity
	SE/TE: 14-15, 31, 54, 63, 82-83, 90-91, 122, 129, 146-147, 154
	Human Biology and Health
	SE/TE: 29, 36-37, 54, 66-67, 90, 103, 121, 132-133, 152-153, 164-165, 181, 208-209, 222-223, 241
	Environmental Science
	SE/TE: 12, 21, 68-69, 74-75, 88, 94, 130-131, 144-145, 172-173, 183
	Inside Earth
	SE/TE: 30-31, 37, 58-59, 66-67, 86, 106-107, 123, 136-137, 163, 167
	Earth's Changing Surface
SE/TE: 20, 31, 46-47, 55, 70-71, 82-83, 122, 146-147	
Earth's Waters	
SE/TE: 18, 40-41, 56, 66-67, 114-115, 122-123, 140, 165	
Weather and Climate	
SE/TE: 15, 26-27, 40-41, 53, 90-91, 99, 116-117, 128-129	
Astronomy	
SE/TE: 14-15, 28-29, 46-47, 63, 83, 102-103, 125, 134-135	
Chemical Building Blocks	
SE/TE: 21, 34-35, 54, 66, 96, 106-107, 126-127, 147	
Chemical Interactions	
SE/TE: 21, 28-29, 54-55, 72-73, 90-91, 110-111, 135, 148-149	

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Motion, Forces and Energy
	SE/TE: 16-17, 28-29, 40-41, 62-63, 81, 88-89, 122-123, 136-137, 156-157, 164-165
	Electricity and Magnetism
	SE/TE: 12-13, 42-43, 52-53, 58-59, 92-93, 113, 130-131
	Sound and Light
	SE/TE: 16, 24-25, 53, 57, 88-89, 97-99, 112, 124
	The Nature of Science and Technology TR: Reading Strategy Transparency(ies): P1; Guided Reading: 47-50, 55-58; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgd-6011, cgp-6012
NS.1.8.10 Explain the role of peer review, evidence, and modification in the development of a theory	The Nature of Science and Technology SE/TE: 21-22
	The Nature of Science and Technology TR: Guided Reading: 55-58; Transparency(ies): P2; Section Summary: 54; Review and Reinforce: 59; Enrich: 60
	The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgp-6012
NS.1.8.11 Evaluate the merit of hypotheses, laws, and theories	Cells and Heredity SE/TE: 10-11
	Cells and Heredity TECH: www.SciLinks.org Web Code: scn-0311

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Strand 2: Life Science	
Standard 2: Living Systems: Characteristics, Structure, and Function - Students shall demonstrate and apply knowledge of living systems using appropriate safety procedures, equipment, and technology	
GRADE 5	
LS.2.5.1 Compare the cell theory to the characteristics of a scientific theory	The Nature of Science and Technology
	SE/TE: 21, 22
	From Bacteria to Plants
	SE/TE: 7
	Animals
	SE/TE: 7
	Cells and Heredity
	SE/TE: 10-11, 13
	Human Biology and Health
	SE/TE: 7
LS.2.5.2 Examine cells on a microscopic level	Cells and Heredity
	TECH: www.SciLinks.org Web Code: scn-0311
	From Bacteria to Plants
	SE/TE: 50
	Cells and Heredity
LS.2.5.3 Describe the similarities of basic cell functions in all organisms	SE/TE: 11, 22, 55, 63
	Human Biology and Health
	SE/TE: 225
	Animals
	SE/TE: 7
	From Bacteria to Plants
	SE/TE: 7, 105, 108, 111
	Cells and Heredity
	SE/TE: 5, 6-7, 13, 16-24, 30, 32-37, 44-48, 49-53, 54, 55-62, 63
	Cells and Heredity
	TR: Reading Strategy Transparency(ies): C1, 3, 12, 18; Guided Reading: 58-60, 74-75, 111-113, 118-120, 127-130; Design Your Own Lab: 123-124; Skills Lab: 133-134; Transparency(ies): C4, 5, 8-10, 13-14, 16-17, 19-21; Section Summary: 57, 73, 110, 117, 126; Review and Reinforce: 61, 76, 114, 121, 131; Enrich: 62, 77, 115, 122, 132

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Cells and Heredity TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cep-3012, cep-1042, cep-3023; www.SciLinks.org Web Code: scn-0322</p> <hr/> <p>From Bacteria to Plants TECH: PHSchool.com Web Code: cep-1041;</p>
LS.2.5.4 Model and identify the parts of animal cells and plant cells:	
<ul style="list-style-type: none"> • cell wall 	<p>From Bacteria to Plants SE/TE: 49-50, 89, 105, 107, 108</p> <hr/> <p>Cells and Heredity SE/TE: 17, 20-21, 24</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Cells and Heredity TR: Transparency(ies): C4, 5
	Cells and Heredity TECH: PHSchool.com Web Code: cep-3012
<ul style="list-style-type: none"> • cell membrane 	From Bacteria to Plants SE/TE: 49, 105 Cells and Heredity SE/TE: 17, 20-21, 24
	Cells and Heredity TR: Transparency(ies): C4, 5
	Cells and Heredity TECH: PHSchool.com Web Code: cep-3012
<ul style="list-style-type: none"> • nucleus 	From Bacteria to Plants SE/TE: 27, 89, 105 Cells and Heredity SE/TE: 18, 20-21
	Cells and Heredity TR: Transparency(ies): C4, 5
	Cells and Heredity TECH: PHSchool.com Web Code: cep-3012
<ul style="list-style-type: none"> • cytoplasm 	From Bacteria to Plants SE/TE: 49, 89 Cells and Heredity SE/TE: 19, 20-21, 37, 51, 60, 99-100
	Cells and Heredity TECH: PHSchool.com Web Code: cep-3012
<ul style="list-style-type: none"> • chloroplast 	From Bacteria to Plants SE/TE: 105, 116-119 Cells and Heredity SE/TE: 22, 46-48
	From Bacteria to Plants TR: Guided Reading: 227-229; Transparency(ies): A31; Section Summary: 226; Review and Reinforce: 230; Enrich: 231 Cells and Heredity TR: Transparency(ies): C4, 5

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	From Bacteria to Plants TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-1042 Cells and Heredity TECH: PHSchool.com Web Code: cep-3012
LS.2.5.5 Compare and contrast plant and animal cells	From Bacteria to Plants SE/TE: 105, 111 Cells and Heredity SE/TE: 16-24
	Cells and Heredity TR: Reading Strategy Transparency(ies):C3; Guided Reading: 58-59; Transparency(ies): C4, 5; Section Summary: 57; Review and Reinforce: 61; Enrich: 62
	From Bacteria to Plants TECH: PHSchool.com Web Code: cep-1041 Cells and Heredity TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-3012;
LS.2.5.6 Conduct investigations to separate plant pigments from the cell	From Bacteria to Plants SE/TE: 114-116 Cells and Heredity SE/TE: 47
LS.2.5.7 Identify the role of chlorophyll in the process of photosynthesis	From Bacteria to Plants SE/TE: 114-119, 120-121 Cells and Heredity SE/TE: 46-48
	From Bacteria to Plants TR: Reading Strategy Transparency(ies):A29; Guided Reading: 227-229; Transparency(ies): A30-31; Design Your Own Lab: 232-234; Section Summary: 226; Review and Reinforce: 230; Enrich: 231 Cells and Heredity TR: Guided Reading: 111-113; Transparency(ies):C13-14; Section Summary: 110; Review and Reinforce: 114; Enrich: 115
	From Bacteria to Plants TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cep-1042

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Cells and Heredity
	TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-1042
LS.2.5.8 Explain and illustrate photosynthesis	From Bacteria to Plants SE/TE: 114-119, 120-121 Cells and Heredity SE/TE: 46-48
	From Bacteria to Plants TR: Reading Strategy Transparency(ies):A29; Guided Reading: 227-229; Transparency(ies): A30-31; Design Your Own Lab: 232-234; Section Summary: 226; Review and Reinforce: 230; Enrich: 231 Cells and Heredity TR: Guided Reading: 111-113; Transparency(ies):C13-14; Section Summary: 110; Review and Reinforce: 114; Enrich: 115
	From Bacteria to Plants TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cep-1042 Cells and Heredity TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-1042
LS.2.5.9 Explain cellular respiration	Cells and Heredity SE/TE: 49-53
	TR: Reading Strategy Transparency(ies): C15; Guided Reading: 118-120; Transparency(ies): C16-17; Design Your Own Lab: 123-124; Section Summary: 117; Review and Reinforce: 121; Enrich: 122
	TECH: Student Edition on Audio CD; Lab Activity Video/DVD; www.SciLinks.org Web Code: scn-0322
LS.2.5.10 Conduct investigations demonstrating the process of cellular respiration	Cells and Heredity SE/TE: 49, 50, 54
	Cells and Heredity TR: Design Your Own Lab: 123-124

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Cells and Heredity TECH: Lab Activity Video/DVD
LS.2.5.11 Investigate careers, scientists, and historical breakthroughs related to cells	Cells and Heredity SE/TE: x-3, 8-9, 10-11, 61, 76-81
	Cells and Heredity TECH: PHSchool.com Web Code: ceb-3000
GRADE 6	
LS.2.6.1 Observe, describe, and illustrate plant and animal tissues:	
• muscle	Human Biology and Health
	SE/TE: 24, 25, 26, 27, 28, 39, 40
	TR: Reading Strategy Transparency(ies): D7; Guided Reading: pp. 70-71; Transparency(ies): D8; Skills Lab: pp. 74-75; Section Summary: p. 69; Review and Reinforce: p. 72; Enrich: p.73
	TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: ced-4014; www.SciLinks.org Web Code: scn-0415
• blood	Human Biology and Health
	SE/TE: 91, 92, 93, 94, 95, 96, 97, 107, 108
	TR: Transparency(ies): D27; Guided Reading: pp. 196-198; Transparency(ies): D28; Section Summary: p. 195; Review and Reinforce: p. 199; Enrich: p. 200
	TECH: Student Edition on Audio CD; www.SciLinks.org Web Code: scn-0433
• skin	Human Biology and Health
	SE/TE: 30, 31, 32, 33, 34, 35, 39, 40, 41
	TR: Transparency(ies): D9; Guided Reading: pp. 78-79; Transparency(ies): D10; Design Your Own Lab: pp. 82-84; Section Summary: p. 77; Review and Reinforce: p. 80; Enrich: p.81
	TECH: Student Edition on Audio CD; Lab Activity Video/DVD; www.SciLinks.org Web Code: scn-0415
• xylem	From Bacteria to Plants
	SE/TE: 137, 141, 142, 143

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	TR: Reading Strategy Transparency(ies): A37; Guided Reading: pp. 281-285; Transparency(ies): A38-41; Section Summary: p. 280; Review and Reinforce: p. 286; Enrich: p. 287
	TECH: Student Edition on Audio CD; PHSchool.com Web Code: ced-1051
• phloem	From Bacteria to Plants
	SE/TE: 137, 141, 142, 144, 145
	TR: Reading Strategy Transparency(ies): A37; Guided Reading: pp. 281-285; Transparency(ies): A38-41; Section Summary: p. 280; Review and Reinforce: p. 286; Enrich: p. 287
	TECH: Student Edition on Audio CD; PHSchool.com Web Code: ced-1051
LS.2.6.2 Illustrate the hierarchical relationships of cells, tissues, and organs	Animals SE/TE: 7 Cells and Heredity SE/TE: 6 Human Biology and Health SE/TE: 6, 7, 8, 9, 11, 39, 40
	Animals TR: Strategy Transparency(ies): B2 Human Biology and Health TR: Reading Strategy Transparency(ies): D1; Guided Reading: pp. 47-50; Section Summary: p. 46; Review and Reinforce: p. 51; Enrich: p. 52
	Human Biology and Health TECH: Student Edition on Audio CD; PHSchool.com Web Code: scn-0411
LS.2.6.3 Investigate the functions of tissues	Human Biology and Health SE/TE: 8, 11, 40
	Human Biology and Health TR: Reading Strategy Transparency(ies): D1; Guided Reading: pp. 47-50; Section Summary: p. 46; Review and Reinforce: p. 51; Enrich: p. 52
	Human Biology and Health TECH: Student Edition on Audio CD; PHSchool.com Web Code: scn-0411

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.2.6.4 Model and explain the functions of animal organs:	<p>Animals SE/TE: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 22, 23, 26, 27, 28, 29, 30, 31, 32, 35, 36, 37, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 70, 71, 72, 73, 75, 76, 77, 80, 81, 82, 83, 86, 87, 88, 89, 90, 91, 92, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 113, 114, 115, 118, 119, 120, 121, 122, 123, 124, 125, 132, 133, 134, 135, 136, 138, 139, 140, 143, 144, 145</p>
	<p>TR: Reading Strategy Transparency(ies): B1, 4, 5, 9, 13, 15, 18, 24, 27, 30, 35; Guided Reading: pp. 47-50, 55-56, 61- 63, 70-73, 113-116, 123-126, 131-132, 146-147, 183-185, 192-194, 201-203, 208-211, 253-255, 269-271; Transparency(ies): B2-3, 6-8, 10-11, 14, 22, 25, 29, 25-26, 28-29, 31, 36-39; Consumer Lab: pp. 66-67, 274-275; Skills Lab: pp. 76-78, 119-120, 188-189, 197-198, 258-260; Section Summary: pp. 46, 54, 60, 69, 112, 122, 130, 145, 182, 191, 200, 207, 252, 268; Review and Reinforce: pp. 51, 57, 64, 74, 117, 127, 133, 148, 186, 195, 204, 212, 256, 272; Enrich: pp. 52, 58, 65, 75, 118, 128, 134, 149, 187, 196, 205, 213, 257, 273</p>
	<p>TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: ceh-2010, cep-2013, ced-2014, cep-2041, ced-2023, cep-2025, ced-2033, cep-2032, ced-2034, cep2041; www.SciLinks.org Web Code: scn-0211, scn-0212, scn-0231, scn-0243</p>
<ul style="list-style-type: none"> heart 	<p>Animals SE/TE: 41, 87, 96, 120; Segmented Worms-closed circulatory system- p. 31; Arthropods-open circulatory system-p. 48; Insects-internal organs in the abdomen p. 56; Fish- circulatory system-p. 87; Amphibian- circulatory system-p. 96; Birds- circulatory system-p.120; Mammals- circulatory system-p. 134</p>
	<p>TR: Transparency(ies): B14, 25, 29</p>
	<p>TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-2041</p>

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<ul style="list-style-type: none"> lung 	<p>Animals SE/TE: 87, 96, 120; Segmented Worms-closed circulatory system- p. 31; Mollusks-open circulatory system-p. 41; Bivalves-gills p. 43; Arthropods-open circulatory system-p. 48; Crustaceans-gills-p, 51; Insects-internal organs in the abdomen p. 56; Fish- respiratory system-p. 87; Amphibian- respiratory system-p. 96; Birds-respiratory system p. 120; Mammals- respiratory system p. 134</p>
	TR: Transparency(ies): B25
	TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-2041
<ul style="list-style-type: none"> kidneys 	<p>Animals SE/TE: 31, 100; Sponges-jelly like cells-p. 16; Cnidarians- expel food through the mouth-p. 20; Flat Worms-digested food exits through a feeding tube-p. 28; Roundworms-tube like digestive system expels waste through the anus-p. 30; Segmented worms-waste removal organs p. 31; Mollusks-digestive system-p. 41; Arthropods-digestive system with 2 openings-p.48; Arachnids-digestive system p. 52; Insects-internal organs in the abdomen p. 56; Echinoderms-digestion p. 72; Reptiles-kidneys p. 100</p>
	TECH: Student Edition on Audio CD
<ul style="list-style-type: none"> eyes 	<p>Animals SE/TE: 27, 28, 45, 89, 102, 135; Worms-nervous system p. 27; Cephalopods-nervous system p.45; Insects-sense organs in the head p. 56; Fish-sense organs p. 89; Mammals-nervous system p. 135</p>
	TECH: Student Edition on Audio CD
<ul style="list-style-type: none"> ears 	<p>Animals SE/TE: 135; Worms-nervous system p. 27; Cephalopods-nervous system p.45; Insects-sense organs in the head p. 56; Mammals-nervous system p. 135</p>
	TECH: Student Edition on Audio CD
<ul style="list-style-type: none"> skin 	<p>Animals SE/TE: 48, 56, 70, 100, 102</p>

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	TECH: Student Edition on Audio CD
• teeth	Animals SE/TE: 42, 133; Mollusks-radula scraps food-p.42; Cephalopods-beak and radula-p.44; Arachnids-sucks food p. 52; Fish-teeth p.90; Reptiles-teeth p. 103; Mammals-teeth p. 133
	TECH: Student Edition on Audio CD
LS.2.6.5 Model and explain the function of plant organs:	
• leaves	From Bacteria to Plants SE/TE: 136,144, 145
	From Bacteria to Plants TR: Transparency(ies): A42
	From Bacteria to Plants TECH: PHSchool.com Web Code: ced-1051
• roots	From Bacteria to Plants SE/TE: 136, 140-141, 145
	From Bacteria to Plants TR: Transparency(ies): A39
• stems	From Bacteria to Plants SE/TE: 136, 142, 145
• flowers	From Bacteria to Plants SE/TE: 152-153, 157, 158-159
	From Bacteria to Plants TR: Transparency(ies): A45; Skills Lab: 302-304
	From Bacteria to Plants TECH: PHSchool.com Web Code: cep-1053
LS.2.6.6 Dissect organs, including but not limited to:	
• heart	These labs and content can be developed for dissection activities.
	Human Biology and Health SE/TE: 80-81, 82, 90
	Human Biology and Health TECH: PHSchool.com Web Code: cep-4031

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
• eye	These labs can be developed for dissection activities.
	Animals
	SE/TE: 26, 33
	Human Biology and Health
	SE/TE: 194
• lung	These labs can be developed for dissection activities.
	Animals
	SE/TE: 86, 91
	Human Biology and Health
	SE/TE: 116
• stem	From Bacteria to Plants
	SE/TE: 142
• root	This content can be developed for dissection activities.
	From Bacteria to Plants
	SE/TE: 136, 140-141, 145
LS.2.6.7 Describe the relationship between organ function and the following needs of cells:	
• oxygen	From Bacteria to Plants
	SE/TE: 144
	Cells and Heredity
	SE/TE: 23, 33-35, 47-48
	Animals
	SE/TE: 41, 51, 87, 90, 96, 120, 134
Human Biology and Health	
	SE/TE: 79, 78-84, 113
	Human Biology and Health
	TR: Reading Strategy Transparency(ies): D21; Guided Reading: 181-183; Transparency(ies): D22-24; Section Summary: 180; Review and Reinforce: 184; Enrich: 185
	Human Biology and Health
	TECH: Student Edition on Audio CD: PHSchool.com Web Code: ced-4031

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<ul style="list-style-type: none"> • food 	From Bacteria to Plants
	SE/TE: 117-119, 140-141, 144-145
	Cells and Heredity
	SE/TE: 19, 45-48, 49-53
	Animals
	SE/TE: 42, 43, 44, 51, 57, 71, 72, 73, 90, 97, 99, 103, 104, 121, 133
	Human Biology and Health
	SE/TE: 60-65, 66-67, 68-71
	Cells and Heredity
	TR: Reading Strategy Transparency(ies): C15; Guided Reading: 111-113, 118-120; Transparency(ies): C13-14, 16-17; Design Your Own Lab: 123-124; Section Summary: 110, 117; Review and Reinforce: 114, 121; Enrich: 115, 122
	Human Biology and Health
	TR: Reading Strategy Transparency(ies): D16, 18; Guided Reading: 133-135, 143-144; Transparency(ies): D17, 19; Skills Lab: 138-140; Section Summary: 132, 142; Review and Reinforce: 136, 145; Enrich: 137, 146
	From Bacteria to Plants
	TECH: PHSchool.com Web Code: cep-1042
	Cells and Heredity
	TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-1042; www.SciLinks.org Web Code: scn-0322
	Human Biology and Health
	TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: ced-4024; www.SciLinks.org Web Code: scn-0423
<ul style="list-style-type: none"> • water 	From Bacteria to Plants
	SE/TE: 145
	Cells and Heredity
	SE/TE: 30, 34-35, 47-48
	Animals
	SE/TE: 71

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<ul style="list-style-type: none"> waste removal 	<p>From Bacteria to Plants SE/TE: 144</p> <p>Cells and Heredity SE/TE: 22, 47</p> <p>Animals SE/TE: 100</p> <p>Human Biology and Health SE/TE: 71, 78-84, 113, 127-131</p>
	<p>Human Biology and Health TR: Reading Strategy Transparency(ies): D21, 37; Guided Reading: 181-183, 259-261; Transparency(ies): D22-24, 38-39; Section Summary: 180, 258; Review and Reinforce: 184, 262; Enrich: 185, 263</p>
	<p>Human Biology and Health TECH: Student Edition on Audio CD: PHSchool.com Web Code: ced-4031; www.SciLinks.org Web Code: scn-0433</p>
<p>LS.2.6.8 Investigate careers, scientists, and historical breakthroughs related to tissues and organs</p>	<p>From Bacteria to Plants SE/TE: 116-117</p> <p>Animals SE/TE: x-3</p> <p>Cells and Heredity SE/TE: 61</p> <p>Human Biology and Health SE/TE: xii-3, 100-101, 156-157</p>
	<p>Animals TECH: PHSchool.com Web Code: ceb-2000</p> <p>Human Biology and Health TECH: PHSchool.com Web Code: ceb-4000;</p>

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GRADE 7	
LS.2.7.1 Illustrate the hierarchical relationships of cells, tissues, organs, and organ systems	Animals SE/TE: 7 Cells and Heredity SE/TE: 6 Human Biology and Health SE/TE: 6, 7, 8, 9, 11, 39, 40
	Animals TR: Strategy Transparency(ies): B2; Human Biology and Health TR: Reading Strategy Transparency(ies): D1; Guided Reading: pp. 47-50; Section Summary: p. 46; Review and Reinforce: p. 51; Enrich: p. 52
	Human Biology and Health TECH: Student Edition on Audio CD; PHSchool.com Web Code: scn-0411
LS.2.7.2 Analyze how two or more organs work together to perform a function (e.g., mouth and stomach to digest food)	Human Biology and Health SE/TE: 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 38, 39, 40, 60, 61, 62, 63, 64, 65, 68, 69, 70, 71, 73, 74, 75, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 107, 108, 109, 112, 113, 114, 115, 116, 117, 118, 119, 120, 127, 128, 129, 130, 131, 135, 136, 137, 145, 146, 147, 148, 149, 154, 155, 171, 172, 173, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 192, 193, 194, 195, 196, 197, 198, 199, 200, 211, 212, 213, 216, 217, 218, 219, 220, 221, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 243, 244, 245

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>TR: Reading Strategy Transparency(ies): D2, 7, 9, 16, 18, 21, 25, 27, 31, 37, 48, 54, 59, 62 ; Guided Reading: pp. 55-58, 70-71, 78- 79, 133-135, 143-144, 181-183, 188-189, 196-198, 241-245, 259-261, 304-307, 367-369, 376-379, 384-386, 431-433, 440-443, 448-451; Transparency(ies): D3-5, 8, 10, 17, 19, 22-24, 26, 32-35, 38-39, 42, 49-53, 55-56, 60-61, 63-67; Skills Lab: pp. 74-75, 138-140, 248-249, 264-265, 310-311, 454-455; Design Your Own Lab: pp. 82-84, 372-373; Technology Lab: pp. 436-437; Section Summary: pp. 54, 69, 77, 132, 142, 180, 187, 195, 240, 258, 303, 366, 375, 430, 439, 447; Review and Reinforce: pp. 59, 72, 80, 136, 145, 184, 190, 199, 246, 262, 308, 370, 380, 435, 444, 452; Enrich: pp. 60, 73, 81, 137, 146, 185, 191, 200, 247, 263, 309, 371, 381, 435, 445, 453</p>
	<p>TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cep-4012, ced-4014, scn-0415, ced-4024; cep-4031, ced-4032, cep-4041, ced-4061, cep-4062, ceh-4060, cep-4071, ; www.SciLinks.org Web Code: scn-0423, scn-0433, scn-0443, scn-0463, scn-0472, scn-0473</p>
<p>LS.2.7.3 Identify organ systems in vertebrates and plants</p>	<p>From Bacteria to Plants SE/TE: 104, 105, 106, 107, 108, 109, 110, 111, 114, 115, 116, 117, 118, 119, 122, 123, 124, 126, 127, 128, 129, 131, 132, 133, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158-159, 171, 172, 173</p> <p>Animals SE/TE: 80, 81, 82, 83, 86, 87, 88, 89, 90, 91, 92, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 113, 114, 115, 118, 119, 120, 121, 122, 123, 124, 125, 128, 129, 130, 131, 132, 133, 134, 135, 136, 138, 139, 140, 143, 144, 145</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>From Bacteria to Plants TR: Reading Strategy Transparency(ies): A29, 32, 34, 37, 43; Guided Reading: pp. 219-222, 227-229, 237-239, 246-248, 281-285, 290-292; Transparency(ies): A27-28, 30-31, 33, 35, 38-42, 44, 45-47; Design Your Own Lab: pp. 232-234, Skills Lab: pp. 242-243, 302-304; Section Summary: pp. 218, 226, 236, 245, 280, 289, 296; Review and Reinforce: pp. 223, 230, 240, 249, 286, 293, 300; Enrich: pp. 224, 231, 241, 250, 287, 294, 301</p> <p>Animals TR: Reading Strategy Transparency(ies): B24, 27, 30, 35, 40; Guided Reading: pp. 183-185, 192-194, 201-203, 208-211, 253-255, 263-264, 269-271; Transparency(ies): B25-26, 36-39, 41; Skills Lab: pp. 188-189, 197-198, 258-260; Consumer Lab: pp. 274-275; Section Summary: pp. 182, 191, 200, 207, 252, 262, 268; Review and Reinforce: pp. 186, 195, 204, 212, 256, 265, 272; Enrich: pp. 187, 196, 205, 213, 257, 266, 273</p>
	<p>From Bacteria to Plants TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cep-1041, ced-1051, cep-1053; www.SciLinks.org Web Code: scn-0143, scn-0152;</p> <p>Animals TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: ced-2033, cep-2032, ced-2034, cep-2041, ced-2042; www.SciLinks.org Web Code: scn-0231, scn-0243</p>
<p>LS.2.7.4 Analyze the structure and function of tissues, organs, and organ systems of a vertebrate and an angiosperm using various models or methods of dissection</p>	<p>From Bacteria to Plants SE/TE: 151, 158-159</p> <p>Animals SE/TE: 80, 84-85, 86, 91, 93, 97, 99, 118, 123, 126-127, 132, 134, 141</p>
	<p>Animals TR: Skills Lab: pp. 197-198, 258-260, Consumer Lab: pp. 274-275</p> <p>From Bacteria to Plants TR: Transparency(ies): A45; Skills Lab: pp. 302-304</p>

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	<p>Animals TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cep-2041;</p> <p>From Bacteria to Plants TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cep-1053</p>
<p>LS.2.7.5 Compare and contrast vertebrate systems and plant organ systems</p>	<p>From Bacteria to Plants SE/TE: 104, 105, 106, 107, 108, 109, 110, 111, 114, 115, 116, 117, 118, 119, 122, 123, 124, 126, 127, 128, 129, 131, 132, 133, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158-159, 171, 172, 173</p> <p>Animals SE/TE: 80, 81, 82, 83</p>
	<p>From Bacteria to Plants TR: Reading Strategy Transparency(ies): A29, 32, 34, 37, 43; Guided Reading: pp. 219-222, 227-229, 237-239, 246-248, 281-285, 290-292; Transparency(ies): A27-28, 30-31, 33, 35, 38-42, 44, 45-47; Design Your Own Lab: pp. 232-234, Skills Lab: pp. 242-243, 302-304; Section Summary: pp. 218, 226, 236, 245, 280, 289, 296; Review and Reinforce: pp. 223, 230, 240, 249, 286, 293, 300; Enrich: pp. 224, 231, 241, 250, 287, 294, 301</p> <p>Animals TR: Guided Reading: pp. 183-185; Skills Lab: pp. 188-189; Section Summary: p. 182; Review and Reinforce: p. 186; Enrich: p. 187</p>
	<p>From Bacteria to Plants TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cep-1041, ced- 1051, cep-1053; www.SciLinks.org Web Code: scn-0143, scn-0152</p> <p>Animals TECH: Student Edition on Audio CD; Lab Activity Video/DVD; www.SciLinks.org Web Code: scn-0231</p>

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LS.2.7.6 Identify human body systems:	
• nervous	Human Biology and Health SE/TE: 176-180, 181, 182-189, 192-200
	Human Biology and Health TR: Reading Strategy Transparency(ies): D48, 54; Guided Reading: 367-369, 376-379, 384-386; Transparency(ies): D49-53, 55, 56; Design Your Own Lab: 372-373; Section Summary: 366, 375, 383; Review and Reinforce: 370, 380, 387; Enrich: 371, 381, 388
	Human Biology and Health TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: ced-4061, cep-4062, ceh-4060; www.SciLinks.org Web Code: scn-0453
• digestive	Human Biology and Health SE/TE: 60-65, 66-67, 68-71
	Human Biology and Health TR: Reading Strategy Transparency(ies): D16, 18; Guided Reading: 133-135, 143-144; Transparency(ies): D17, 19; Skills Lab: 138-140; Section Summary: 132, 142; Review and Reinforce: 136, 145; Enrich: 137, 146
	Human Biology and Health TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: ced-4024; www.SciLinks.org Web Code: scn-0423
• circulatory	Human Biology and Health SE/TE: 78-84, 85-89, 90, 91-97, 103
	Human Biology and Health TR: Reading Strategy Transparency(ies): D21, 25, 27; Guided Reading: 181-183, 188-189, 196-198; Skills Lab: 192-193, 208-209; Transparency(ies): D22-24, 26, 28; Section Summary: 180, 187, 195; Review and Reinforce: 184, 190, 199; Enrich: 185, 191, 200

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	<p>Human Biology and Health TECH: Student Edition on Audio CD: PHSchool.com Web Code: ced-4031, ced-4032; www.SciLinks.org Web Code: scn-0433</p>
<ul style="list-style-type: none"> • respiratory 	<p>Human Biology and Health SE/TE: 112-120, 121</p>
	<p>Human Biology and Health TR: Reading Strategy Transparency(ies): D31; Guided Reading: 241-245; Transparency(ies): D32-35; Skills Lab: 248-249; Section Summary: 240; Review and Reinforce: 246; Enrich: 247</p>
	<p>Human Biology and Health TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-4041</p>
<ul style="list-style-type: none"> • excretory 	<p>Human Biology and Health SE/TE: 127-131</p>
	<p>Human Biology and Health TR: Reading Strategy Transparency(ies): D37; Guided Reading: 259-261; Transparency(ies): D38-39; Skills Lab: 264-265; Section Summary: 258; Review and Reinforce: 262; Enrich: 263</p>
	<p>Human Biology and Health TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0443</p>
<ul style="list-style-type: none"> • integumentary 	<p>Human Biology and Health SE/TE: 30-35, 36-37</p>
	<p>Human Biology and Health TR: Reading Strategy Transparency(ies): D9; Guided Reading: 78-79; Transparency(ies): D10; Design Your Own Lab: 82-84; Section Summary: 77; Review and Reinforce: 80, Enrich: 81</p>
	<p>Human Biology and Health TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0415</p>
<ul style="list-style-type: none"> • skeletal/muscular 	<p>Human Biology and Health SE/TE: 12-19, 24-28, 29</p>

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	Human Biology and Health TR: Reading Strategy Transparency(ies): D2; Guided Reading: 55-58; Transparency(ies): D3-5; Section Summary: 54; Review and Reinforce: 59; Enrich: 60
	Human Biology and Health TECH: Student Edition on Audio CD: PHSchool.com Web Code: cep-4012
<ul style="list-style-type: none"> • endocrine 	Human Biology and Health SE/TE: 216-223
	Human Biology and Health TR: Reading Strategy Transparency(ies): D59; Guided Reading: 431-433; Transparency(ies): D60-61; Technology Lab: 436-437; Section Summary: 430; Review and Reinforce: 434; Enrich: 435
	Human Biology and Health TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-4071
<ul style="list-style-type: none"> • reproductive 	Human Biology and Health SE/TE: 224-231
	Human Biology and Health TR: Reading Strategy Transparency(ies): D62; Guided Reading: 440-443; Transparency(ies): D63-65; Section Summary: 439; Review and Reinforce: 444; Enrich: 445
	Human Biology and Health TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0472
LS.2.7.7 Relate the structure of vertebrate and plant body systems to their functions	From Bacteria to Plants SE/TE: 104-111, 114-119, 120-121, 122-124, 125, 126-129, 136-145, 146-150, 151-157, 158-159 Animals SE/TE: 80-83, 86-92, 93, 94-98, 99-106, 118-125, 132-140, 141

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	<p>From Bacteria to Plants</p> <p>TR: Reading Strategy Transparency(ies): A29, 32, 34, 37, 43; Guided Reading: 219-222, 227-229, 237-239, 246-248, 281-285, 290-292, 297-299; Transparency(ies): A27-28, 30, 31, 33, 35; Design Your Own Lab: 232-234; Skills Lab: 242-243, 302-304; Section Summary: 218, 226, 236, 245, 280, 289, 296; Review and Reinforce: 223, 230, 240, 249, 286, 293, 300; Enrich: 224, 231, 241, 250, 287, 294, 301</p> <p>Animals</p> <p>TR: Reading Strategy Transparency(ies): B24, 27, 30, 35; Guided Reading: 183-185, 192-194, 201-203, 208-211, 253-255, 269-271; Transparency(ies): B25, 26, 28, 29, 31, 36-39; Skills Lab: 188-189, 197-198, 258-260; Consumer Lab: 274-275; Section Summary: 182, 191, 200, 207, 252, 268; Review and Reinforce: 186, 195, 204, 212, 256, 272; Enrich: 187, 196, 205, 213, 257, 273</p>

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	<p>From Bacteria to Plants TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: ceh-1040, ced-1051, cep-1053; www.SciLinks.org Web Code: scn-0143, scn-0152</p> <p>Animals TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: ced-2033, cep-2032, ced-2034, cep-2041; www.SciLinks.org Web Code: scn-0231, scn-0243</p>
LS.2.7.8 Investigate functions of human body systems	<p>Human Biology and Health SE/TE: 8-11, 12-19, 24-28, 29, 30-35, 36-37, 60-65, 66-67, 68-71, 78-84, 85-89, 90, 91-97, 103, 112-120, 121, 127-131, 176-180, 181, 182-189, 192-200, 216-223, 224-231</p>
	<p>Human Biology and Health TR: Reading Strategy Transparency(ies): D1, 2, 6, 7, 9, 16, 18,21, 25, 27,31, 37, 48, 54, 59, 62; Guided Reading: 47-50, 55-58, 78-79, 133-135, 143-144,181-183, 188-189, 196-198,241-245, 259-261,367-369, 376-379, 384-386, 431-433, 440-443; Transparency(ies): D3-5, 10, 17, 19, 22-24, 26, 28,32-35, 38-39, 49-53, 55, 56, 60-61, 63-65; Skills Lab: 138-140,192-193, 208-209,248-249, 264-265; Design Your Own Lab: 372-373; Technology Lab: 436-437; Section Summary: 46, 54, 77, 132, 142,180, 187, 195, 240, 258,366, 375, 383, 430, 439; Review and Reinforce: 51, 59, 80, 136, 145,184, 190, 199, 246, 262, 370, 380, 387, 434, 444; Enrich: 52, 60, 81, 137, 146, 185, 191, 200,247, 263, 371, 381, 388, 435, 445</p>
	<p>Human Biology and Health TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-4012, ced-4031, ced-4032, cep-4041,ced-4061, cep-4062, ceh-4060, cep-4071; www.SciLinks.org Web Code: scn-0411, scn-0415, scn-0433, scn-0443, scn-0453, scn-0472</p>

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LS.2.7.9 Describe interactions between major organ systems	<p>Human Biology and Health</p> <p>SE/TE: SE/TE: 8-11, 12-19, 24-28, 29, 30-35, 36-37, 60-65, 66-67, 68-71, 78-84, 85-89, 90, 91-97, 103, 112-120, 121, 127-131, 176-180, 181, 182-189, 192-200, 216-223, 224-231</p>
	<p>Human Biology and Health</p> <p>TR: Reading Strategy Transparency(ies): D1, 2, 6, 7, 9, 16, 18,21, 25, 27,31, 37, 48, 54, 59, 62; Guided Reading: 47-50, 55-58, 78-79, 133-135, 143-144,181-183, 188-189, 196-198,241-245, 259-261,367-369, 376-379, 384-386, 431-433, 440-443; Transparency(ies): D3-5, 10, 17, 19, 22-24, 26, 28,32-35, 38-39, 49-53, 55, 56, 60-61, 63-65; Skills Lab: 138-140,192-193, 208-209,248-249, 264-265; Design Your Own Lab: 372-373; Technology Lab: 436-437; Section Summary: 46, 54, 77, 132, 142,180, 187, 195, 240, 258,366, 375, 383, 430, 439; Review and Reinforce: 51, 59, 80, 136, 145,184, 190, 199, 246, 262, 370, 380, 387, 434, 444; Enrich: 52, 60, 81, 137, 146, 185, 191, 200, 247, 263, 371, 381, 388, 435, 445</p>
	<p>Human Biology and Health</p> <p>TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-4012, ced-4031, ced-4032, cep-4041,ced-4061, cep-4062, ceh-4060, cep-4071; www.SciLinks.org Web Code: scn-0411, scn-0415, scn-0433, scn-0443, scn-0453, scn-0472</p>
LS.2.7.10 Investigate careers, scientists, and historical breakthroughs related to life systems	<p>The Nature of Science and Technology</p> <p>SE/TE: 30-31</p> <p>Animals</p> <p>SE/TE: x-3</p> <p>From Bacteria to Plants</p> <p>SE/TE: x-3</p> <p>Cells and Heredity</p> <p>SE/TE: x-3</p> <p>Human Biology and Health</p> <p>SE/TE: xii-3, 100-101</p> <p>Environmental Science</p> <p>SE/TE: x-3</p>

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	<p>From Bacteria to Plants TECH: PHSchool.com Web Code: ceb-1000</p> <p>Animals TECH: PHSchool.com Web Code: ceb-2000</p> <p>Cells and Heredity TECH: PHSchool.com Web Code: ceb-3000</p> <p>Human Biology and Health TECH: PHSchool.com Web Code: ceb-4000</p> <p>Environmental Science TECH: PHSchool.com Web Code: ceb-5000</p>
GRADE 8	
LS.2.8.1 Illustrate the hierarchical relationships of cells, tissues, organs, organ systems, and organisms	<p>Animals SE/TE: 7</p> <p>Cells and Heredity SE/TE: 6</p> <p>Human Biology and Health SE/TE: 6, 7, 8, 9, 11, 39, 40</p> <p>Environmental Science SE/TE: 7</p>
	<p>Animals TR: Strategy Transparency(ies): B2;</p> <p>Human Biology and Health TR: Reading Strategy Transparency(ies): D1; Guided Reading: pp. 47-50; Section Summary: p. 46; Review and Reinforce: p. 51; Enrich: p. 52</p>
	<p>Human Biology and Health TECH: Student Edition on Audio CD; PHSchool.com Web Code: scn-0411</p>
LS.2.8.2 Identify different types of single-celled organisms:	
• protists	From Bacteria to Plants
	SE/TE: 74, 75, 76, 77, 78, 79, 80, 82, 83, 99, 100, 101
	TR: Reading Strategy Transparency(ies): A18; Guided Reading: pp. 165-168; Transparency(ies): A19-22; Section Summary: p. 164; Review and Reinforce: p. 169; Enrich: p. 170
	TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-1031

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
<ul style="list-style-type: none"> bacteria 	<p>From Bacteria to Plants SE/TE: 48, 49, 50, 51, 52, 53, 57, 69, 70, 71</p> <p>Cells and Heredity SE/TE: 24</p> <p>Environmental Science SE/TE: 52, 53, 137</p>
	<p>From Bacteria to Plants TR: Guided Reading: pp. 119-121; Transparency(ies): A15; Consumer Lab: pp. 124-126; Section Summary: p. 118; Review and Reinforce: p. 122; Enrich: p. 123</p> <p>Environmental Science TR: Transparency(ies): E17</p>
	<p>From Bacteria to Plants TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: ced-1022</p>
<p>LS.2.8.3 Relate the effect of bacteria on oral health</p>	<p>From Bacteria to Plants</p>
	<p>SE/TE: 54, 55, 56, 57, 66</p>
	<p>TR: Guided Reading: pp. 119-121; Transparency(ies): A15; Section Summary: p. 118; Review and Reinforce: p. 122; Enrich: p. 123</p>
	<p>TECH: Student Edition on Audio CD; PHSchool.com Web Code: ceh-1020, ced-1022</p>
<p>LS.2.8.4 Describe and illustrate single-celled organisms found in pond water</p>	<p>From Bacteria to Plants</p>
	<p>SE/TE: 74, 75, 76, 77, 78, 79, 80, 83, 100</p>
	<p>TR: Reading Strategy Transparency(ies): A18; Guided Reading: pp. 165-168; Transparency(ies): A19-22; Section Summary: p. 164; Review and Reinforce: p. 169; Enrich: p. 170</p>
	<p>TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-1031</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.2.8.5 Use a dichotomous key to classify organisms found in pond water	From Bacteria to Plants
	SE/TE: 74, 79, 83 These activities can be developed for classification using a dichotomous key.
	TR: Transparency(ies): A21-22
	TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-1031
LS.2.8.6 Compare and contrast characteristics of unicellular organisms and multi-cellular organisms	<p>From Bacteria to Plants SE/TE: 7, 27, 28, 29, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 88, 89, 90, 91, 92, 93, 94, 95, 99, 100, 101, 104, 105, 106, 107, 108, 109, 110, 111, 122, 123, 124, 126, 127, 128, 129, 131, 132, 133, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158-159, 160, 161, 162, 163, 164, 171, 172, 173</p> <p>Animals SE/TE: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 22, 23, 26, 27, 28, 29, 30, 31, 32, 35, 36, 37, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 70, 71, 72, 73, 75, 76, 77, 80, 81, 82, 83, 86, 87, 88, 89, 90, 91, 92, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 113, 114, 115, 118, 119, 120, 121, 122, 123, 124, 125, 132, 133, 134, 135, 136, 138, 139, 140, 143, 144, 145</p>
	<p>From Bacteria to Plants TR: Reading Strategy Transparency(ies): A18, 24, 32, 37, 43, 48; Guided Reading: pp. 119-121, 165-168, 181-183, 219-222, 237-239, 246-247, 281-285, 290-292, 297-299, 307-309; Transparency(ies): A15, 19-22, 25, 27- 28, 33, 35, 40-42, 44, 45-47, 49; Consumer Lab: pp. 124-126; Skills Lab: pp. 242-243, 302-304; Section Summary: pp. 118, 164, 180, 218, 236, 280, 289, 296, 306; Review and Reinforce: pp. 122, 169, 184, 223, 240, 249, 286, 293, 300, 310; Enrich: pp. 123, 170, 185, 224, 241, 250, 287, 294, 301, 311</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Animals TR: Reading Strategy Transparency(ies): B1, 4, 5, 9, 13, 15, 18, 24, 27, 30, 35; Guided Reading: pp. 47-50, 55-56, 61- 63, 70-73, 113-116, 123-126, 131-132, 146-147, 183-185, 192-194, 201-203, 208-211, 253-255, 269-271; Transparency(ies): B2-3, 6-8, 10-11, 14, 22, 25, 29, 25-26, 28-29, 31, 36-39; Consumer Lab: pp. 66-67, 274-275; Skills Lab: pp. 76-78, 119-120, 188-189, 197-198, 258-260; Section Summary: pp. 46, 54, 60, 69, 112, 122, 130, 145, 182, 191, 200, 207, 252, 268; Review and Reinforce: pp. 51, 57, 64, 74, 117, 127, 133, 148, 186, 195, 204, 212, 256, 272; Enrich: pp. 52, 58, 65, 75, 118, 128, 134, 149, 187, 196, 205, 213, 257, 273</p>
	<p>From Bacteria to Plants TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: ced-1022; cep- 1031; ceh-1040, ced-1051; www.SciLinks.org Web Code: scn-0133; scn-0143, scn-0152, scn-0154</p> <p>Animals TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: ceh-2010, cep-2013, ced-2014, cep-2041, ced-2023, cep-2025, ced-2033, cep-2032, ced-2034, cep2041; www.SciLinks.org Web Code: scn-0211, scn-0212, scn-0231, scn-0243</p>
LS.2.8.7 Classify cells as eukaryotic or prokaryotic	<p>From Bacteria to Plants SE/TE: 26-29</p>
	<p>From Bacteria to Plants TR: Reading Strategy Transparency(ies): A7; Guided Reading: 68-69; Section Summary: 67; Review and Reinforce: 70; Enrich: 71</p>
	<p>From Bacteria to Plants TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0113</p>
LS.2.8.8 Identify and describe similarities and differences among organisms of different, but closely related taxa (e.g., pine trees, big cats, rodents, ungulates)	<p>From Bacteria to Plants SE/TE: 26-29, 48-53, 57, 74-83, 88-91, 95, 104-111, 122-124, 125, 126-129, 146-150, 151-157, 158-159</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Animals SE/TE: 6-11, 12-14, 15-23, 26-32, 33, 40-45, 46, 47-54, 55-59, 60-61, 70-73, 80-83, 84-85, 86-92, 93, 94-98, 99-106, 118-125, 132-140, 141</p> <hr/> <p>From Bacteria to Plants TR: Reading Strategy Transparency(ies): A7, 14, 18, 24, 32, 34, 43; Guided Reading: 68-69, 119-121, 165-168, 181-183, 219-222, 237-239, 246-248, 290-292, 297-299; Skills Lab: 242-243, 302-304; Transparency(ies): A15, 19-22, 25, 27, 28, 33, 35, 45-47; Section Summary: 67, 118, 164, 218, 236, 245, 289, 296; Review and Reinforce: 70, 122, 169, 223, 240, 249, 293, 300; Enrich: 71, 123, 170, 224, 241, 250, 294, 301</p>
	<p>Animals TR: Reading Strategy Transparency(ies): B1, 4, 5, 9, 13, 15, 18, 21, 24, 27, 30, 35; Guided Reading: 47-50, 55-56, 61-63, 70-73, 113-116, 123-126, 131-132, 146-147, 183-185, 192-194, 201-203, 208-211, 253-255, 269-271; Transparency(ies): B2-3, 6-8, 10-11, 14, 16-17, 19-20, 22, 25-26, 28-29, 31, 36-39; Consumer Lab: 66-67, 274-275; Skills Lab: 76-78, 119-120, 135-137, 188-189, 197-198, 258-260, Section Summary: 46, 54, 60, 69, 112, 122, 130, 145, 182, 191, 200, 207, 252, 268; Review and Reinforce: 51, 57, 64, 74, 117, 127, 133, 148, 186, 195, 204, 212, 256, 272; Enrich: 52, 58, 65, 75, 118, 128, 134, 149, 187, 196, 205, 213, 257, 273</p>
	<p>From Bacteria to Plants TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0113; scn-0143, scn-0152; PHSchool.com Web Code: cep-1031, ceh-1040, cep-1053</p> <hr/> <p>Animals TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: ceh-2010, ced-2014, ced-2023, ced-2033, cep-2032, ced-2034, cep-2041; www.SciLinks.org Web Code: scn-0211, scn-0212, scn-0222, scn-0243</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.2.8.9 Investigate careers, scientists, and historical breakthroughs related to organisms	From Bacteria to Plants
	SE/TE: 116-117
	Cells and Heredity
	SE/TE: 138-145
	TR: Reading Strategy Transparency(ies): C40; Guided Reading: 295-297; Skills Lab: 300-302; Section Summary: 294; Review and Reinforce: 298; Enrich: 299
	Cells and Heredity
	TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn- 0351
Standard 3: Life Cycles, Reproduction, and Heredity - Students shall demonstrate and apply knowledge of life cycles, reproduction, and heredity using appropriate safety procedures, equipment, and technology	
GRADE 5	
No standards listed at this grade level	
GRADE 6	
LS.3.6.1 Describe characteristics of plants and animals manipulated through selective breeding	Cells and Heredity
	SE/TE: 76-81, 124, 142, 168-171
	Cells and Heredity
	TR: Reading Strategy Transparency(ies): C24; Guided Reading: 175-177; Transparency(ies): C25 Section Summary: 174; Review and Reinforce: 178; Enrich: 179
	Cells and Heredity
	TECH: Student Edition on Audio CD: PHSchool.com Web Code: ced-3031
LS.3.6.2 Predict the outcome of selective breeding practices over several generations	Cells and Heredity
	SE/TE: 76-81, 124, 142, 168-171
	Cells and Heredity
	TR: Reading Strategy Transparency(ies): C24; Guided Reading: 175-177; Transparency(ies): C25 Section Summary: 174; Review and Reinforce: 178; Enrich: 179
	Cells and Heredity
	TECH: Student Edition on Audio CD: PHSchool.com Web Code: ced-3031

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.3.6.3 Relate the development of Earth's present-day complex species from earlier, distinctly different simpler species	<p>From Bacteria to Plants SE/TE: 23-24, 26-29, 30-33</p> <p>Cells and Heredity SE/TE: 148-153, 154, 155-163</p>
	<p>From Bacteria to Plants TR: Reading Strategy Transparency(ies): A7, 8; Guided Reading: 68-69, 74-76; Section Summary: 67, 73; Review and Reinforce: 70, 77; Enrich: 71, 78</p>
	<p>Cells and Heredity</p>
	<p>TR: Reading Strategy Transparency(ies): C41; Guided Reading: 305-306; Transparency(ies): C42; Skills Lab: 309-310; Section Summary: 304; Review and Reinforce: 307; Enrich: 308</p>
	<p>From Bacteria to Plants TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0133, scn-0114</p> <p>Cells and Heredity TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0352</p>
LS.3.6.4 Investigate careers, scientists, and historical breakthroughs related to adaptations and selective breeding	<p>Cells and Heredity SE/TE: 76-81, 142</p>
	<p>Cells and Heredity TR: Reading Strategy Transparency(ies): C24; Guided Reading: 175-177; Transparency(ies): C25; Section Summary: 174; Review and Reinforce: 178; Enrich: 179</p>
	<p>Cells and Heredity TECH: Student Edition on Audio CD: PHSchool.com Web Code: ced-3031</p>
LS.3.6.5 Describe behavioral adaptations of organisms to the environment:	
• hibernation	<p>Animals SE/TE: 162, 163</p>
• estivation	<p>Animals SE/TE: 162, 163</p>
• tropism	<p>From Bacteria to Plants SE/TE: 160-161, 164</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Animals SE/TE: 19
	From Bacteria to Plants TR: Reading Strategy Transparency(ies): A48; Guided Reading: 307-309
	From Bacteria to Plants TECH: www.SciLinks.org Web Code: scn-0154
• territorial behavior	Animals SE/TE: 158-159, 163
• migration	Animals SE/TE: 162, 166-169
	Animals TR: Reading Strategy Transparency(ies): B47; Guided Reading: 330; Section Summary: 329; Review and Reinforce: 331; Enrich: 332
	Animals TECH: Student Edition on Audio CD; www.SciLinks.org Web Code: scn-0253
LS.3.6.6 Differentiate between innate behaviors:	
• migration	Animals SE/TE: 162, 166-169
	Animals TR: Reading Strategy Transparency(ies): B47; Guided Reading: 330; Section Summary: 329; Review and Reinforce: 331; Enrich: 332
	Animals TECH: Student Edition on Audio CD; www.SciLinks.org Web Code: scn-0253
• web spinning	Animals SE/TE: 150
• defensive posture	Animals SE/TE: 156-159, 163
	Animals TR: Reading Strategy Transparency(ies): B45; Guided Reading: 320-322

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	Animals TECH: Student Edition on Audio CD; PHSchool.com Web Code: cep-2052
• communication	Animals SE/TE: 156-157, 163
	Animals TR: Reading Strategy Transparency(ies): B45; Guided Reading: 320-322
	Animals TECH: TECH: PHSchool.com Web Code: cep-2052
• imprinting and learned behaviors:	Animals SE/TE: 147, 148-154, 155, 172
	Animals TR: Reading Strategy Transparency(ies): B43; Guided Reading: 311-313; Transparency(ies): B44; Design Your Own Lab: 316-317; Section Summary: 310; Review and Reinforce: 314; Enrich: 315
	Animals TECH: Student Edition on Audio CD; Lab Activity Video/DVD; www.SciLinks.org Web Code: scn-0251
• speaking a language	Animals SE/TE: 156-157, 163 Human Biology and Health SE/TE: 238-239
	Animals TR: Reading Strategy Transparency(ies): B45; Guided Reading: 320-322
	Animals TECH: PHSchool.com Web Code: cep-2052
• using tools	Animals SE/TE: 154, 160-161
	Animals TR: Transparency(ies): B46

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
• hunting skills	Animals SE/TE: 160-161, 164-165
	Animals TR: Transparency(ies): B46
LS.3.6.7 Describe the following structural adaptations for survival in the environment:	
• coloration	Animals SE/TE: 102 Environmental Science SE/TE: 29
• mimicry	Environmental Science SE/TE: 29
• odor glands	Animals SE/TE: 156, 157, 163
	Animals TECH: PHSchool.com Web Code: cep-2052
• beaks	Animals SE/TE: 44, 124, 125
• feet	Animals SE/TE: 71, 72, 73, 124, 125
• wings	Animals SE/TE: 119, 118-119, 128-131
	Animals TR: Reading Strategy Transparency(ies): B35, 40; Guided Reading: 263-264; Transparency(ies): B36, 41; Section Summary: 262; Review and Reinforce: 265; Enrich: 266
	Animals TECH: Student Edition on Audio CD: PHSchool.com Web Code: ced-2042
• fur	Animals SE/TE: 82-83, 132-140
• ears	Animals SE/TE: 89, 132-140
• spines	Animals SE/TE: 73, 92
• teeth	Animals SE/TE: 89, 99, 103, 119, 133

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
• thorns	From Bacteria to Plants SE/TE: 139 TE: 139
• characteristics of seeds	From Bacteria to Plants SE/TE: 136-140, 145, 148-150, 151, 154-155
	From Bacteria to Plants TR: Reading Strategy Transparency(ies): A37; Guided Reading: 281-285; Transparency(ies): A38
LS.3.6.8 Investigate careers, scientists, and historical breakthroughs related to learned and innate behaviors	Animals SE/TE: 152
GRADE 7	
LS.3.7.1 Explain that the fertilized egg cell carries genetic information from each parent and multiplies to form a complete organism	Cells and Heredity SE/TE: 92-96 Human Biology and Health SE/TE: 225-231, 232-233
	Cells and Heredity TR: Reading Strategy Transparency(ies): C27; Guided Reading: 195-196; Transparency(ies): C28; Section Summary: 194; Review and Reinforce: 197; Enrich: 198 Human Biology and Health TR: Guided Reading: 440-443; Transparency(ies): D63-65; Section Summary: 439; Review and Reinforce: 444; Enrich: 445
	Cells and Heredity TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0333 Human Biology and Health TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0472
LS.3.7.2 Distinguish between sperm cells and egg cells	Cells and Heredity SE/TE: 77, 92-95, 96 Human Biology and Health SE/TE: 225-231

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Cells and Heredity TR: Reading Strategy Transparency(ies): C27; Guided Reading: 195-196; Transparency(ies): C28; Section Summary: 194; Review and Reinforce: 197; Enrich: 198</p> <p>Human Biology and Health TR: Guided Reading: 440-443; Transparency(ies): D63-65; Section Summary: 439; Review and Reinforce: 444; Enrich: 445</p>
	<p>Cells and Heredity TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0333</p>
	<p>Human Biology and Health</p>
	<p>TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0472</p>
<p>LS.3.7.3 Compare and contrast the structure and function of the sperm cell and the egg cell in vertebrates and plants and their role in sexual reproduction</p>	<p>From Bacteria to Plants SE/TE: 107, 110-111, 127, 128, 137, 148-149, 154-155 TE: 149</p> <p>Cells and Heredity SE/TE: 77, 92-95, 96</p> <p>Human Biology and Health SE/TE: 225-231</p>
	<p>From Bacteria to Plants TR: Transparency(ies): A28, 46</p> <p>Cells and Heredity TR: Reading Strategy Transparency(ies): C27; Guided Reading: 195-196; Transparency(ies): C28; Section Summary: 194; Review and Reinforce: 197; Enrich: 198</p> <p>Human Biology and Health TR: Guided Reading: 440-443; Transparency(ies): D63-65; Section Summary: 439; Review and Reinforce: 444; Enrich: 445</p>
	<p>Cells and Heredity TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0333</p> <p>Human Biology and Health TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0472</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.3.7.4 Investigate and analyze the development of embryos	From Bacteria to Plants SE/TE: 138-140, 148-149, 154-155, 158-159 Human Biology and Health SE/TE: 225-231
	From Bacteria to Plants TR: Transparency(ies): A46 Human Biology and Health TR: Guided Reading: 440-443; Transparency(ies): D63-65; Section Summary: 439; Review and Reinforce: 444; Enrich: 445
	Human Biology and Health TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0472
LS.3.7.5 Dissect a poultry egg to analyze its structure (e.g., paper, plastic, or clay models, virtual dissection, or specimen dissection)	Animals SE/TE: 101 Lab Zone: Making inferences About Egg shells TE: 101
	TECH: Student Edition on Audio CD:
LS.3.7.6 Dissect a flower to analyze the reproductive system of angiosperms (e.g., paper, plastic, or clay models; virtual dissection; or specimen dissection)	From Bacteria to Plants SE/TE: 158-159
	From Bacteria to Plants TR: Skills Lab: 302-304
	From Bacteria to Plants TECH: Lab Activity Video/DVD:
LS.3.7.7 Differentiate between sexual and asexual reproduction in:	
• vertebrates	Animals SE/TE: 9, 88, 95, 104, 123
• plants	From Bacteria to Plants SE/TE: 107, 110-111
	From Bacteria to Plants TR: Transparency(ies): A28
LS.3.7.8 Identify the number and source of chromosomes in human body cells	Cells and Heredity SE/TE: 96
LS.3.7.9 Identify the number and source of chromosomes in human sex cells	Cells and Heredity SE/TE: 94

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.3.7.10 Explain the role of cell division	Cells and Heredity SE/TE: 55-60, 62, 92-96
	Cells and Heredity TR: Reading Strategy Transparency(ies): C18, 27; Guided Reading: 127-130, 195-196; Transparency(ies): C19-21, 28; Skills Lab: 133-134, Section Summary: 126, 194; Review and Reinforce: 131, 197; Enrich: 132, 198
	Cells and Heredity TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-3023; www.SciLinks.org Web Code: scn-0333
LS.3.7.11 Investigate careers, scientists, and historical breakthroughs related to reproduction	Cells and Heredity SE/TE: 61, 76
LS.3.7.12 Summarize the interactions between organ systems in the maintenance of homeostasis	Human Biology and Health SE/TE: 6-11, 130-131, 145, 177, 220-221
	Human Biology and Health TR: Reading Strategy Transparency(ies): D1; Guided Reading: 47-50; Transparency(ies): D61; Section Summary: 46; Review and Reinforce: 51; Enrich: 52
	Human Biology and Health TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0411; PHSchool.com Web Code: cep-4071;
GRADE 8	
LS.3.8.1 Identify and explain why inherited characteristics of living things depend on genes	Cells and Heredity SE/TE: 92-93, 96, 98, 112
	Cells and Heredity TR: Reading Strategy Transparency(ies): C27; Guided Reading: 175-177
LS.3.8.2 Differentiate between dominant and recessive traits	Cells and Heredity SE/TE: 79-81, 87, 114, 115, 118
	Cells and Heredity TR: Transparency(ies): C25

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.3.8.3 Observe and classify traits as dominant or recessive:	
• tongue rolling	Cells and Heredity SE/TE: 82-83
	Cells and Heredity TR: Skills Lab: 180-182
	Cells and Heredity TECH: Lab Activity Video/DVD:
• detached earlobes	Cells and Heredity SE/TE: 82-83
	Cells and Heredity TR: Skills Lab: 180-182
	Cells and Heredity TECH: Lab Activity Video/DVD:
• widow's peak	Cells and Heredity SE/TE: 82-83, 111
	Cells and Heredity TR: Skills Lab: 180-182
	Cells and Heredity TECH: Lab Activity Video/DVD:
• hitchhiker's thumb	Cells and Heredity SE/TE: 82-83
	Cells and Heredity TR: Skills Lab: 180-182
	Cells and Heredity TECH: Lab Activity Video/DVD:
• dimples	Cells and Heredity SE/TE: 82-83
	Cells and Heredity TR: Skills Lab: 180-182
	Cells and Heredity TECH: Lab Activity Video/DVD:
• unibrow	Cells and Heredity SE/TE: 82-83
	Cells and Heredity TR: Skills Lab: 180-182
	Cells and Heredity TECH: Lab Activity Video/DVD:

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.3.8.4 Differentiate among observed inherited traits and acquired traits of plants and animals	Cells and Heredity SE/TE: 76-81, 142-145, 146-147
	Cells and Heredity TR: Reading Strategy Transparency(ies): C24; Guided Reading: 175-177, 295-297; Transparency(ies): C25; Skills Lab: 180-182, 300-302; Section Summary: 174, 294; Review and Reinforce: 178, 298; Enrich: 179, 299
	Cells and Heredity TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: ced-3031; www.SciLinks.org Web Code: scn-0351
LS.3.8.5 Interpret simple genetic crosses using Punnett Squares	Cells and Heredity SE/TE: 86-89, 90-91, 107
	Cells and Heredity TR: Transparency(ies): C26
LS.3.8.6 Predict patterns that emerge from simple genetic crosses	Cells and Heredity SE/TE: 86-89, 90-91, 107
	Cells and Heredity TR: Transparency(ies): C26
LS.3.8.7 Conduct investigations demonstrating that the phenotype of a genetic trait is the result of genotype	Cells and Heredity SE/TE: 88, 89, 90-91
	Cells and Heredity TR: Skills Lab: 190-192
	Cells and Heredity TECH: Lab Activity Video/DVD:
LS.3.8.8 Explain how genetic variation within a species is a result of dominant traits and recessive traits	Cells and Heredity SE/TE: 76-81, 82-83, 92-96, 143, 144
	Cells and Heredity TR: Reading Strategy Transparency(ies): C24, 27; Guided Reading: 175-177, 195-196; Transparency(ies): C25, 28; Skills Lab: 180-182; Section Summary: 174, 194; Review and Reinforce: 178, 197; Enrich: 179, 198

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Cells and Heredity TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: ced-3031; www.SciLinks.org Web Code: scn-0333</p>
<p>LS.3.8.9 Compare and contrast patterns of embryological development for all vertebrates, including humans</p>	<p>Animals SE/TE: 95, 123, 137</p> <p>Human Biology and Health SE/TE: 225-231</p>
	<p>Human Biology and Health TR: Guided Reading: 440-443; Transparency(ies): D63-65; Section Summary: 439; Review and Reinforce: 444; Enrich: 445</p>
	<p>Animals TECH: PHSchool.com Web Code: ced-2033</p> <p>Human Biology and Health TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0472</p>
<p>LS.3.8.10 Distinguish between characteristics of plants and animals through selective breeding</p>	<p>Cells and Heredity SE/TE: 76-81, 124, 142, 169</p>
	<p>Cells and Heredity TR: Reading Strategy Transparency(ies): C24; Guided Reading: 175-177; Transparency(ies): C25; Section Summary: 174; Review and Reinforce: 178; Enrich: 179</p>
	<p>Cells and Heredity TECH: Student Edition on Audio CD: PHSchool.com Web Code: ced-3031</p>
<p>LS.3.8.11 Investigate careers, scientists, and historical breakthroughs related to genetics</p>	<p>Cells and Heredity SE/TE: 61, 76</p>
<p>LS.3.8.12 Compare the theory of evolution to the characteristics of a scientific theory</p>	<p>The Nature of Science and Technology SE/TE: 21-22</p> <p>Cells and Heredity SE/TE: 138-145, 146-147</p>
	<p>Cells and Heredity TR: Reading Strategy Transparency(ies): C40; Guided Reading: 295-297; Skills Lab: 300-302; Section Summary: 294; Review and Reinforce: 298; Enrich: 299</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Cells and Heredity TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0351
LS.3.8.13 Identify basic ideas related to biological evolution:	
<ul style="list-style-type: none"> diversity of species 	Cells and Heredity SE/TE: 138-145, 146-147, 152-153
	Cells and Heredity TR: Reading Strategy Transparency(ies): C40; Guided Reading: 295-297; Skills Lab: 300-302; Section Summary: 294; Review and Reinforce: 298; Enrich: 299
	Cells and Heredity TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0351
<ul style="list-style-type: none"> variations within species 	Cells and Heredity SE/TE: 143, 145
<ul style="list-style-type: none"> adaptations 	Animals SE/TE: 8, 96-97, 100, 101, 119, 121, 124-125 Cells and Heredity SE/TE: 141 Environmental Science SE/TE: 25, 28-29, 61
<ul style="list-style-type: none"> natural selection 	Cells and Heredity SE/TE: 143-145 Environmental Science SE/TE: 25
	Cells and Heredity TECH: www.SciLinks.org Web Code: scn-0351
<ul style="list-style-type: none"> extinction of a species 	Animals SE/TE: 106 Cells and Heredity SE/TE: 159, 162 Environmental Science SE/TE: 100-103

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.3.8.14 Explain that the fossil record provides evidence of life forms' appearance, diversification, and extinction	Cells and Heredity
	SE/TE: 155-163
	Cells and Heredity
	TR: Guided Reading: 313-315; Transparency(ies): C43-45; Section Summary: 312; Review and Reinforce: 316; Enrich: 317
	Cells and Heredity
	TECH: Student Edition on Audio CD: PHSchool.com Web Code: cep-3053
LS.3.8.15 Explain the process of natural selection	Cells and Heredity
	SE/TE: 143-145
	Environmental Science
	SE/TE: 25
	Cells and Heredity
	TECH: www.SciLinks.org Web Code: scn-0351
LS.3.8.16 Identify genetic traits that make organisms more likely to survive and reproduce in a particular environment	Cells and Heredity
	SE/TE: 138-145, 146-147
	Cells and Heredity
	TR: Reading Strategy Transparency(ies): C40; Guided Reading: 295-297; Skills Lab: 300-302; Section Summary: 294; Review and Reinforce: 298; Enrich: 299
	Cells and Heredity
	TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0351
LS.3.8.17 Investigate careers, scientists, and historical breakthroughs related to natural selection and the fossil record	Cells and Heredity
	SE/TE: 138-139, 149
Standard 4: Populations and Ecosystems - Students shall demonstrate and apply knowledge of populations and ecosystems using appropriate safety procedures, equipment, and technology.	
GRADE 5	
LS.4.5.1 Distinguish among and model:	
• organisms	Environmental Science
	SE/TE: 6-11, 12, 24-31, 42-43

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Environmental Science TR: Reading Strategy Transparency(ies): E1, 6; Guided Reading: 47-50, 66-67; Transparency(ies): E2, 7; Skills Lab: 53-54; Section Summary: 46, 65; Review and Reinforce: 51, 68; Enrich: 52, 69
	Environmental Science TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: ced-5013; www.SciLinks.org Web Code: scn-0511
<ul style="list-style-type: none"> populations 	Environmental Science SE/TE: 9, 11, 13-20
	Environmental Science TR: Reading Strategy Transparency(ies): E3; Guided Reading: 57-58; Transparency(ies): E4-5; Skills Lab: 61-63; Section Summary: 56; Review and Reinforce: 59; Enrich: 60
	Environmental Science TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-5012, ceh-5010
<ul style="list-style-type: none"> communities 	Environmental Science SE/TE: 9, 11, 32-35
	Environmental Science TR: Reading Strategy Transparency(ies): E8; Guided Reading: 72-73; Transparency(ies): E9- 10; Section Summary: 71; Review and Reinforce: 74; Enrich: 75
	Environmental Science TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0514
<ul style="list-style-type: none"> ecosystems 	Environmental Science SE/TE: 10, 11, 12, 70-75
	Environmental Science TR: Reading Strategy Transparency(ies): E21; Guided Reading: 139-141; Skills Lab: 144-145; Section Summary: 138; Review and Reinforce: 142; Enrich: 143

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Environmental Science TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0525
<ul style="list-style-type: none"> • biosphere 	Environmental Science SE/TE: 6-11, 12, 48-53
	Environmental Science TR: Reading Strategy Transparency(ies): E1, 14; Guided Reading: 47-50, 116-118; Transparency(ies): E2, 15-17; Skills Lab: 53-54; Section Summary: 46, 115; Review and Reinforce: 51, 119; Enrich: 52, 120
	Environmental Science TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-4024; www.SciLinks.org Web Code: scn-0511
LS.4.5.2 Identify the transfer of energy using energy pyramids:	
<ul style="list-style-type: none"> • terrestrial 	Environmental Science SE/TE: 46-47
	Environmental Science TR: Transparency(ies): E13
<ul style="list-style-type: none"> • aquatic 	Earth's Waters SE/TE: 144
	Earth's Waters TR: Transparency(ies): H49
	Earth's Waters TECH: PHSchool.com Web Code: cfp-3042
LS.4.5.3 Design food webs in specific habitats to show the flow of energy within communities:	
<ul style="list-style-type: none"> • terrestrial 	Environmental Science SE/TE: 44-45, 47
	Environmental Science TR: Transparency(ies): E12
	Environmental Science TECH: www.SciLinks.org Web Code: scn-0521
<ul style="list-style-type: none"> • aquatic 	Earth's Waters SE/TE: 144

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Earth's Waters TR: Transparency(ies): H49
	Earth's Waters TECH: PHSchool.com Web Code: cfp-3042
LS.4.5.4 Evaluate food webs under conditions of stress:	
• overgrazing	Environmental Science SE/TE: 120
• overpopulation	Environmental Science SE/TE: 16-18, 21, 97
	Environmental Science TR: Transparency(ies): E4; Skills Lab: 61-63
• natural disaster	Environmental Science SE/TE: 120
• introduction of non-native species	Environmental Science SE/TE: 103, 105
• human impact/urban development	Environmental Science SE/TE: 102, 103, 105, 121
LS.4.5.5 Examine the role of limiting factors on the carrying capacity of an ecosystem:	
• food	Environmental Science SE/TE: 18, 20
	Environmental Science TR: Transparency(ies): 5
• space	Environmental Science SE/TE: 19
• water	Environmental Science SE/TE: 18, 20
	Environmental Science TR: Transparency(ies): E5
• shelter	Environmental Science SE/TE: 19, 20
LS.4.5.6 Describe and diagram the nitrogen cycle in ecosystems	
	Environmental Science SE/TE: 52-53
	Environmental Science TR: Transparency(ies): E17

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
LS.4.5.7 Describe and diagram the carbon cycle in ecosystems	Environmental Science
	SE/TE: 50-51, 53
	Environmental Science
	TR: Transparency(ies): E16
LS.4.5.8 Describe and diagram the carbon dioxide-oxygen cycle in ecosystems	Environmental Science
	SE/TE: 50-51, 53
	Environmental Science
	TR: Transparency(ies): E16
LS.4.5.9 Conduct investigations demonstrating the role of the carbon dioxide-oxygen cycle in ecosystems	Environmental Science
	SE/TE: 50-51, 53
	Environmental Science
	TR: Transparency(ies): E16
LS.4.5.10 Analyze the concept of conservation of mass as related to the amount of matter in an ecosystem	Environmental Science
	SE/TE: 12
	Environmental Science
	TR: Skills Lab: 53-54
	Environmental Science
	TECH: Lab Activity Video/DVD:
LS.4.5.11 Create ecosystems in which plants can exist without animals	Environmental Science
	SE/TE: 12
	Environmental Science
	TR: Skills Lab: 53-54
	Environmental Science
	TECH: Lab Activity Video/DVD:
LS.4.5.12 Conduct investigations in which plants are encouraged to thrive	From Bacteria to Plants
	SE/TE: 165-167, 168-169
	Environmental Science
	SE/TE: 5, 12, 38, 68-69

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	From Bacteria to Plants TR: Reading Strategy Transparency(ies): A50; Guided Reading: 314-316; Technology Lab: 319-320; Section Summary: 313; Review and Reinforce: 317; Enrich: 318
	Environmental Science TR: Skills Lab: 53-54, 134-136
	From Bacteria to Plants TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0155
	Environmental Science TECH: Lab Activity Video/DVD:
LS.4.5.13 Construct, compare, and contrast environments in open and closed aquaria	Environmental Science SE/TE: 5, 12, 38, 68-69, 74-75
	Environmental Science TR: Skills Lab: 53-54, 134-136, 144-145
	Environmental Science TECH: Lab Activity Video/DVD:
LS.4.5.14 Categorize organisms by the function they serve in ecosystems and food webs:	
• predator/prey	Animals SE/TE: 51, 52, 124, 131
	Environmental Science SE/TE: 28, 31
• parasitism	From Bacteria to Plants SE/TE: 78, 93
	Environmental Science SE/TE: 31
• producer/consumer/decomposer	From Bacteria to Plants SE/TE: 56, 86, 92, 104
	Animals SE/TE: 62, 63, 64
	Environmental Science SE/TE: 42-43

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
<ul style="list-style-type: none"> scavenger 	Animals SE/TE: 28, 51, 54
	Environmental Science SE/TE: 43
<ul style="list-style-type: none"> herbivore/carnivore/ omnivore 	Animals SE/TE: 42, 43
	Environmental Science SE/TE: 43
LS.4.5.15 Conduct field studies identifying and categorizing organisms in a given area of an ecosystem	Environmental Science SE/TE: 81, 105, 112
	The following laboratory, technology and teaching resource activities can be adapted for field study SE: 12, 21, 70, 74-75
	The following laboratory, technology and teaching resource activities can be adapted for field study
	Environmental Science TR: Skills Lab: 53-54, 61-63, 144-145
	The following laboratory, technology and teaching resource activities can be adapted for field study
	Environmental Science TECH: Lab Activity Video/DVD:
LS.4.5.16 Evaluate positive and negative human effects on ecosystems	Environmental Science SE/TE: 82-87, 88, 89-93, 95-105, 106-109
	Earth's Waters SE/TE: 64-65, 68-77, 149, 153, 158-164, 165, 166-167
	Weather and Climate
	SE/TE: 22-25, 26-27, 28-29

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Environmental Science TR: Reading Strategy Transparency(ies): E23, 24, 26; Guided Reading: 177-179, 187-189, 196-198, 203-204; Skills Lab: 182-184, 192-193, Section Summary: 176, 186, 195, 202; Review and Reinforce: 180, 190, 199, 205; Enrich: 181, 191, 200, 206</p> <p>Earth's Waters TR: Reading Strategy Transparency(ies): H20, 54; Guided Reading: 141-144, 288-291; Transparency(ies): H21-22, 55; Skills Lab: 294-296; Section Summary: 140, 287; Review and Reinforce: 145, 292; Enrich: 146, 293</p> <p>Weather and Climate TR: Reading Strategy Transparency(ies): I18; Guided Reading: 70-72; Design Your Own Lab: 75-77; Section Summary: 69; Review and Reinforce: 73; Enrich: 74</p>
	<p>Environmental Science TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-5032, ced-5033; www.SciLinks.org Web Code: scn-0531, scn-0534</p> <p>Earth's Waters TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-3020, cfh3040; www.SciLinks.org Web Code: scn-0823, scn-0845</p> <p>Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-4014, cfd-4010, cfh-4010; cfh-4010</p>
LS.4.5.17 Describe and illustrate various symbiotic relationships:	
<ul style="list-style-type: none"> • parasitism 	<p>From Bacteria to Plants SE/TE: 78, 93</p> <p>Environmental Science SE/TE: 31</p>
<ul style="list-style-type: none"> • mutualism 	<p>Bacteria and Plants SE/TE: 78</p> <p>Environmental Science SE/TE: 30, 31</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
• commensalism	Environmental Science SE/TE: 30, 31
LS.4.5.18 Investigate careers, scientists, and historical breakthroughs related to populations and ecosystems	Environmental Science SE/TE: x-3, 84-85
	Environmental Science TECH: PHSchool.com Web Code: ceb-5000;
GRADE 6	
LS.4.6.1 Identify environmental conditions that can affect the survival of individual organisms and entire species	Environmental Science SE/TE: 6-10, 11, 12, 16-20, 21, 26-27, 32-35
	Environmental Science TR: Reading Strategy Transparency(ies): E1, 8; Guided Reading: 47-50, 72-73; Transparency(ies): E2, 4, 5, 7, 9-10; Skills Lab: 53-54, 61-63; Section Summary: 46, 71; Review and Reinforce: 51, 74; Enrich: 52, 75
	Environmental Science TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-5012; www.SciLinks.org Web Code: scn-0511, scn-0541
LS.4.6.2 Conduct simulations demonstrating competition for resources within an ecosystem	Environmental Science SE/TE: 18-19, 20, 26, 56
	Environmental Science TR: Transparency(ies): E5
LS.4.6.3 Conduct simulations demonstrating natural selection	Cells and Heredity SE/TE: 146-147
	Cells and Heredity TR: Skills Lab: 300-302
LS.4.6.4 Analyze natural selection	Cells and Heredity SE/TE: 143-145, 146-147
	Environmental Science SE/TE: 25
	Cells and Heredity TR: Design Your Own Lab: Skills Lab: 300-302

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Cells and Heredity TECH: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0351</p>
GRADE 7	
LS.4.7.1 Explain the role of reproduction in the continuation of a species	<p>Animals SE/TE: 9, 11</p>
GRADE 8	
LS.4.8.1 Analyze the effect of changes in environmental conditions on the survival of individual organisms and entire species	<p>Environmental Science SE/TE: 6-10, 11, 12, 16-20, 21, 26-27, 32-35</p>
	<p>Environmental Science TR: Reading Strategy Transparency(ies): E1, 8; Guided Reading: 47-50, 72-73; Transparency(ies): E2, 4, 5, 7, 9-10; Skills Lab: 53-54, 61-63; Section Summary: 46, 71; Review and Reinforce: 51, 74; Enrich: 52, 75</p>
	<p>Environmental Science TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-5012; www.SciLinks.org Web Code: scn-0511, scn-0541</p>
Strand 3: Physical Science	
Standard 5: Matter: Properties and Changes - Students shall demonstrate and apply knowledge of matter, including properties and changes, using appropriate safety procedures, equipment, and technology	
GRADE 5	
PS.5.5.1 Identify the relationship of atoms to all matter	<p>Chemical Building Blocks SE/TE: 11, 74-79</p> <p>Chemical Interactions SE/TE: 6-11</p>
	<p>Chemical Building Blocks TR: Reading Strategy Transparency(ies): K20; Guided Reading: 173-175; Transparency(ies): K21-22; Section Summary: 172; Review and Reinforce: 176; Enrich: 177</p> <p>Chemical Interactions TR: Reading Strategy Transparency(ies): L1; Guided Reading: 47-48; Transparency(ies): L2-3; Section Summary: 46; Review and Reinforce: 49; Enrich: 50</p>

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	Chemical Building Blocks TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-1031 Chemical Interactions TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-2011
PS.5.5.2 Conduct scientific investigations on physical properties of objects	Chemical Building Blocks SE/TE: 21, 66-67, 88, 96-97, 130
	Chemical Building Blocks TR: Skills Lab: 137-139; Consumer Lab: 193-194
	Chemical Building Blocks TECH: Lab Activity Video/DVD:
PS.5.5.3 Identify common examples of physical properties:	
• length	Chemical Interactions SE/TE: 69
• mass	Chemical Building Blocks SE/TE: 16-17, 20
	Chemical Building Blocks TR: Transparency(ies): K40
	Chemical Building Blocks TECH: PHSchool.com Web Code: cgd-1012
• area	Chemical Building Blocks SE/TE: 170 Chemical Interactions SE/TE: 69
• perimeter	N / A
• texture	Inside Earth SE/TE: 88-89, 116-122 Chemical Building Blocks SE/TE: 98 Chemical Interactions SE/TE: 50, 53

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Inside Earth
	TR: Reading Strategy Transparency(ies):F35; Guided Reading: 251-254 Transparency(ies): F36; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: www.SciLinks.org Web Code: scn-
	Chemical Interactions
	TR: Reading Strategy Transparency(ies):L16; Guided Reading: 119-121; Transparency(ies): Skills Lab: 124-127; Section Summary: 118; Review and Reinforce: 122; Enrich:123
	Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-1041, cfp-1041; www.SciLinks.org Web Code: scn- Chemical Interactions TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn- 1221
• taste	Inside Earth SE/TE: 155 Chemical Interactions SE/TE: 109
• odor	Chemical Interactions SE/TE: 46, 54-55
	Chemical Interactions TR: Reading Strategy Transparency(ies):L16; Guided Reading: 119-121; Skills Lab: 124-127; Section Summary: 118; Review and Reinforce: 122; Enrich: 123
	Chemical Interactions TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn- 1221

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<ul style="list-style-type: none"> • color 	<p>Inside Earth SE/TE: 114, 116-117, 122</p> <p>Chemical Building Blocks SE/TE: 8</p> <p>Chemical Interactions SE/TE: 50, 53, 54-55</p>
	<p>Inside Earth TR: Reading Strategy Transparency(ies):F35; Guided Reading: 251-254 Transparency(ies): F36; Section Summary: 250; Review and Reinforce: 255; Enrich: 256</p> <p>Chemical Interactions TR: Reading Strategy Transparency(ies):L16; Guided Reading: 119-121; Transparency(ies): Skills Lab: 124-127; Section Summary: 118; Review and Reinforce: 122; Enrich: 123</p>
	<p>Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-1041, cfp-1041</p> <p>Chemical Interactions TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn- 1221</p>
<ul style="list-style-type: none"> • elasticity 	<p>Inside Earth SE/TE: 44-45</p> <p>Chemical Building Blocks SE/TE: 8</p>
PS.5.5.4 State characteristics of physical changes	<p>Chemical Building Blocks SE/TE: 22-23, 32, 27, 48-53</p> <p>Chemical Interactions SE/TE: 47-48</p>
	<p>Chemical Building Blocks TR: Reading Strategy Transparency(ies):K4, 10; Guided Reading: 63-64, 116-118; Transparency(ies): K11-12; Skills Lab: 121-122; Section Summary: 115; Review and Reinforce: 119; Enrich: 120</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Chemical Building Blocks TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-1022
PS.5.5.5 Identify characteristics and common examples of physical changes	Chemical Building Blocks SE/TE: 22-23, 32, 27, 48-53 Chemical Interactions SE/TE: 47-48
	Chemical Building Blocks TR: Reading Strategy Transparency(ies):K4; 10; Guided Reading: 63-64, 116-118; Transparency(ies): K11-12; Skills Lab: 121-122; Section Summary: 115; Review and Reinforce: 119; Enrich:120
	Chemical Building Blocks TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-1022
PS.5.5.6 Explain how heat influences the states of matter of a substance:	
<ul style="list-style-type: none"> • solid 	Chemical Building Blocks SE/TE: 43, 47, 48-53, 54
	Chemical Building Blocks TR: Reading Strategy Transparency(ies): K10; Guided Reading: 116-118; Transparency(ies): K11-12; Skills Lab: 121-122; Section Summary: 115; Review and Reinforce: 119; Enrich:120
	Chemical Building Blocks TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-1022
<ul style="list-style-type: none"> • liquid 	Chemical Building Blocks SE/TE: 43, 47, 48-53, 54
	Chemical Building Blocks TR: Reading Strategy Transparency(ies): K10; Guided Reading: 116-118; Transparency(ies): K11-12; Skills Lab: 121-122; Section Summary: 115; Review and Reinforce: 119; Enrich:120

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	Chemical Building Blocks TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-1022
<ul style="list-style-type: none"> • gas 	Chemical Building Blocks SE/TE: 55-61, 62-65, 66-67
	Chemical Building Blocks TR: Reading Strategy Transparency(ies): K13, 17; Guided Reading: 125-127, 132-134; Transparency(ies): K14-16, 18; Skills Lab: 137-139; Section Summary: 124, 131; Review and Reinforce: 128, 135; Enrich: 129, 136
	Chemical Building Blocks TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgp-1023; www.SciLinks.org Web Code: scn-1124
<ul style="list-style-type: none"> • plasma 	Chemical Building Blocks SE/TE: 109
PS.5.5.7 Demonstrate the effect of changes in the physical properties of matter	Chemical Building Blocks SE/TE: 22-23, 32, 27, 48-53, 88-89, 95, 99, 130 Chemical Interactions SE/TE: 47-48 Inside Earth SE/TE: 87-88
	Chemical Building Blocks TR: Reading Strategy Transparency(ies):K4; 10; Guided Reading: 63-64, 116-118; Transparency(ies): K11-12; Skills Lab: 121-122; Section Summary: 115; Review and Reinforce: 119; Enrich: 120
	Chemical Building Blocks TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-1022
PS.5.5.8 Model the motion and position of molecules in solids, liquids, and gases in terms of kinetic energy	Chemical Building Blocks SE/TE: 48-53

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	Chemical Building Blocks TR: Reading Strategy Transparency(ies): 10; Guided Reading: 63-64, 116-118; Transparency(ies): K11-12; Skills Lab: 121-122; Section Summary: 115; Review and Reinforce: 119; Enrich: 120
	Chemical Building Blocks TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-1022
PS.5.5.9 Conduct investigations demonstrating expansion and contraction	Chemical Building Blocks SE/TE: 54, 66-67
	Chemical Building Blocks TR: Skills Lab: 121-122, 137-139
PS.5.5.10 Investigate scientists, careers, and historical breakthroughs related to physical properties, physical changes, and states of matter	Chemical Building Blocks SE/TE: x-3, 58, 60, 76-77
	Chemical Building Blocks TECH: PHSchool.com Web Code: cgb-1000;
GRADE 6	
PS.5.6.1 Identify common examples of chemical properties:	
<ul style="list-style-type: none"> • ability to burn 	Chemical Building Blocks SE/TE: 24, 26
<ul style="list-style-type: none"> • ability to produce light 	Chemical Building Blocks SE/TE: 24, 26
<ul style="list-style-type: none"> • ability to react with other substances 	Chemical Interactions SE/TE: 50-53, 54-55, 62-63, 64-65, 72-73
	Chemical Interactions TR: Skills Lab: 124-127, 145-147
PS.5.6.2 Compare and contrast characteristics of physical and chemical properties	Inside Earth SE/TE: 87-88 Chemical Building Blocks SE/TE: 6-9, 15 Chemical Interactions SE/TE: 47
	Chemical Building Blocks TR: Guided Reading: 54-56

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
PS.5.6.3 Conduct investigations using acid/base indicators	Chemical Interactions SE/TE: 83, 98, 104, 106, 110-111, 118
	Chemical Interactions TR: Consumer Lab: 214-217
PS.5.6.4 Apply skills of scientific investigation to determine density using SI units	Chemical Building Blocks SE/TE: 5, 21
	Chemical Building Blocks TR: Skills Lab: 59-60
PS.5.6.5 Construct a density column using a minimum of four different liquids (e.g., alcohol, colored water, syrup, oil)	Chemical Building Blocks SE/TE: 5, 21
	Chemical Building Blocks TR: Skills Lab: 59-60
PS.5.6.6 Use a density column to test the density of various solid objects (e.g., piece of candy, cork, candle, paper clip, egg)	Chemical Building Blocks SE/TE: 5, 21 Inside Earth SE/TE: 123

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Chemical Building Blocks TR: Skills Lab: 59-60 Inside Earth TR: Skills Lab: 257
PS.5.6.7 Identify characteristics of chemical changes:	
• burning	Chemical Interactions SE/TE: 54-55, 75
	Chemical Interactions TR: Skills Lab: 124-127
• production of a new substance	Chemical Interactions SE/TE: 48, 50-51, 54-55
	Chemical Interactions TR: Skills Lab: 124-127
• production of light	Chemical Building Blocks SE/TE: 24
• color change	Chemical Interactions SE/TE: 54-55, 66
	Chemical Interactions TR: Skills Lab: 124-127
• endothermic and exothermic reactions	Chemical Building Blocks SE/TE: 26, 27 Chemical Interactions SE/TE: 52-53, 68
	Chemical Interactions TR: Transparency(ies): L18;
• reactivity	Chemical Building Blocks SE/TE: 9, 87, 89, 131 Chemical Interactions SE/TE: 17, 72-73
PS.5.6.8 Conduct investigations comparing and contrasting physical and chemical changes	Chemical Building Blocks SE/TE: 23-25 Chemical Interactions SE/TE: 46-53, 54-55

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Chemical Building Blocks TR: Guided Reading: 63-64</p> <p>Chemical Interactions TR: Reading Strategy Transparency(ies): L16; Guided Reading: 119-121; Transparency(ies): L17-18; Skills Lab: 124-127; Section Summary: 118; Review and Reinforce: 122; Enrich: 123</p>
	<p>Chemical Interactions TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-1221</p>
PS.5.6.9 Demonstrate the law of the conservation of matter	<p>Chemical Building Blocks SE/TE: 25, 27</p> <p>Chemical Interactions SE/TE: 58-59, 60-61, 63</p>
	<p>Chemical Interactions TR: Transparency(ies): L55, 20</p>
	<p>Chemical Interactions TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgp-2022</p>
PS.5.6.10 Investigate scientists, careers, and historical breakthroughs related to chemical properties and chemical changes	<p>Chemical Interactions SE/TE: x-3, 18-19</p>
	<p>Chemical Interactions TECH: PHSchool.com Web Code: cgb-2000</p>
GRADE 7	
PS.5.7.1 Explain how a small number of naturally-occurring elements can result in the large variety of substances found in the world	<p>Human Biology and Health SE/TE: 52</p> <p>Environmental Science SE/TE: 50, 51, 52, 53</p> <p>Inside Earth SE/TE: 128-129, 131-132, 136-137, 156, 162, 167</p> <p>Chemical Building Blocks SE/TE: 80-87, 88-95, 96-97, 98-105, 106-107, 108-111, 118-125, 126-127, 130-134, 135-138, 139-146, 147, 152-153</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Chemical Interactions
	SE/TE: 6-7
	Chemical Building Blocks TR: Reading Strategy Transparency(ies): K23, 26, 28, 29, 32, 34, 35; Guided Reading: 180-182, 187-190, 197-200, 208-209, 245-247, 255-256, 261-262, 267-270; Transparency(ies): K24-25, 33, 36-38; Consumer Lab: 193-194; Skills Lab: 203-205; Technology Lab: 250-252; Section Summary: 179, 186, 196, 207, 244, 254, 260, 266; Review and Reinforce: 183, 191, 201, 210, 248, 257, 263, 271; Enrich: 184, 192, 202, 211, 249, 258, 264, 272
	Chemical Building Blocks TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-1032, cgd-1041, cgh-1040, cgp-1044; www.SciLinks.org Web Code: scn-1133, scn-1134, scn-1135, scn-1142, scn-1143
PS.5.7.2 Create models of common compounds:	
<ul style="list-style-type: none"> • water 	Chemical Building Blocks SE/TE: 11
	Chemical Interactions SE/TE: 34, 57
<ul style="list-style-type: none"> • carbon dioxide 	Chemical Building Blocks SE/TE: 11, 12
	Chemical Interactions SE/TE: 34
<ul style="list-style-type: none"> • salt 	Chemical Building Blocks SE/TE: 100
	Chemical Interactions SE/TE: 24, 57
<ul style="list-style-type: none"> • iron oxide 	Chemical Building Blocks SE/TE: 9, 24, 89, 92, 100
<ul style="list-style-type: none"> • ammonia 	Chemical Interactions SE/TE: 57, 105

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
PS.5.7.3 Identify compounds as substances consisting of two or more elements chemically combined	Chemical Building Blocks
	SE/TE: 12, 14
	Chemical Interactions SE/TE: 5, 7, 25-27, 32-33, 35, 62-63, 128
	Chemical Interactions TECH: www.SciLinks.org Web Code: scn-1213, scn-1214
PS.5.7.4 Compare and contrast properties of compounds to those of the elements that compose them:	
• salt: sodium, chlorine	Chemical Building Blocks
	SE/TE: 100, 103
	Chemical Interactions SE/TE: 24, 57
• water: hydrogen, oxygen	Chemical Building Blocks
	SE/TE: 11, 102, 104
	Chemical Interactions SE/TE: 34, 47, 57
• carbon dioxide: carbon, oxygen	Chemical Building Blocks
	SE/TE: 11, 12, 100, 102, 104
	Chemical Interactions SE/TE: 34, 123
	Chemical Interactions TECH: www.SciLinks.org Web Code: scn-1242
PS.5.7.5 Demonstrate techniques for forming and separating mixtures:	
• mixing	Chemical Building Blocks
	SE/TE: 13-14, 15
	Chemical Interactions SE/TE: 84
• magnetic attraction	Chemical Building Blocks
	SE/TE: 14
	Electricity and Magnetism SE/TE: 7

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
• evaporation	Earth's Water SE/TE: 54, 109 Chemical Building Blocks SE/TE: 14
• filtration	Earth's Water SE/TE: 54, 60-61 Chemical Building Blocks SE/TE: 14
• chromatography	N / A
• settling	Chemical Building Blocks SE/TE: 14 Chemical Interactions SE/TE: 95, 97
PS.5.7.6 Classify substances as:	
• elements	Chemical Building Blocks SE/TE: 10 Chemical Interactions SE/TE: 6-7, 12-20
	Chemical Interactions TR: Reading Strategy Transparency(ies): Guided Reading: 53-55; Transparency(ies): L4, 5; Skills Lab: 58-60; Section Summary: 52; Review and Reinforce: 56; Enrich: 57
	Chemical Interactions TECH: Student Edition on Audio CD Lab Activity Video/DVD; PHSchool.com Web Code: cgp-1032
• compounds	Chemical Building Blocks SE/TE: 12, 14 Chemical Interactions SE/TE: 5, 7, 25-27, 32-33, 35, 62-63, 128
	Chemical Interactions TECH: www.SciLinks.org Web Code: scn-1213, scn-1214

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
<ul style="list-style-type: none"> • mixtures 	<p>Chemical Building Blocks SE/TE: 6, 13-15</p> <p>Chemical Interactions SE/TE: 7, 86</p>
<p>PS.5.7.7 Distinguish among solvent, solute, and solution</p>	<p>Chemical Building Blocks SE/TE: 13</p> <p>Chemical Interactions SE/TE: 84-89, 90-91, 92-97</p>
	<p>Chemical Interactions TR: Reading Strategy Transparency(ies): L30; Guided Reading: 187-189, 197-198; Transparency(ies): L31, 32; Skills Lab: 192-193; Section Summary: 186, 196; Review and Reinforce: 190, 199; Enrich: 191, 200</p>
	<p>Chemical Interactions TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-2031; www.SciLinks.org Web Code: scn-1232</p>
<p>PS.5.7.8 Investigate the effect of variables on solubility rates</p>	<p>Chemical Interactions SE/TE: 88, 90-91</p>
	<p>Chemical Interactions TR: Skills Lab: 192-194</p>
<p>PS.5.7.9 Interpret solubility graphs</p>	<p>Chemical Interactions SE/TE: 96</p>
<p>PS.5.7.10 Investigate scientists, careers, and historical breakthroughs related to elements, mixtures, and compounds</p>	<p>Chemical Interactions SE/TE: x-3, 18-19</p>
	<p>Chemical Interactions TECH: PHSchool.com Web Code: cgb-2000;</p>
<p>GRADE 8</p>	
<p>PS.5.8.1 Compare the atomic theory to the characteristics of a scientific theory</p>	<p>The Nature of Science and Technology SE/TE: 21-22</p> <p>Chemical Interactions SE/TE: 6-11</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>The Nature of Science and Technology TR: Guided Reading: 55-58; Transparency(ies): P2; Section Summary: 54; Review and Reinforce: 59; Enrich: 60</p> <p>Chemical Interactions TR: Reading Strategy Transparency(ies): L1; Guided Reading: 47-48; Transparency(ies):L2-3; Section Summary:46; Review and Reinforce: 49; Enrich:50</p>
	<p>The Nature of Science and Technology TECH: Student Edition on Audio CD; PHSchool.com Web Code: cgp-6012</p> <p>Chemical Interactions TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-2011</p>
PS.5.8.2 Explain the structure of atoms	<p>Chemical Building Blocks SE/TE: 11, 74-79</p> <p>Chemical Interactions SE/TE: 6-11</p>
	<p>Chemical Building Blocks TR: Reading Strategy Transparency(ies): K20; Guided Reading: 173-175; Transparency(ies): K21-22; Section Summary: 172; Review and Reinforce: 176; Enrich:177</p> <p>Chemical Interactions TR: Reading Strategy Transparency(ies): L1; Guided Reading: 47-48; Transparency(ies):L2-3; Section Summary:46; Review and Reinforce: 49; Enrich:50</p>
	<p>Chemical Building Blocks TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-1031</p> <p>Chemical Interactions TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-2011</p>
PS.5.8.3 Determine the number of protons, neutrons, and electrons in an atom	<p>Chemical Building Blocks SE/TE: 75, 78-79</p> <p>Chemical Interactions SE/TE:8-10, 11, 12-20, 21</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Chemical Building Blocks TR: Transparency(ies): K21, 22</p> <p>Chemical Interactions TR: Guided Reading: 53-55; Transparency(ies): L2, 4, 5; Skills Lab: 58-59; Section Summary: 52; Review and Reinforce: 56; Enrich: 57</p>
	<p>Chemical Building Blocks TECH: PHSchool.com Web Code: cgd-1031</p> <p>Chemical Interactions TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-1032</p>
PS.5.8.4 Create atomic models of common elements	<p>The content in these editions provide background in teaching models.</p> <p>Chemical Building Blocks SE/TE: 75, 78 TE: 78</p> <p>Chemical Interactions SE/TE: 5, 12-16, 20, 135</p>
	<p>Chemical Interactions TR: Transparency(ies): L4, 5</p>
	<p>Chemical Interactions TECH: PHSchool.com Web Code: cgp-1032</p>
PS.5.8.5 Investigate scientists, careers, and historical breakthroughs related to the atomic theory	<p>Chemical Interactions SE/TE: 8-11</p>
Standard 6: Motion and Forces - Students shall demonstrate and apply knowledge of motion and forces using appropriate safety procedures, equipment, and technology	
GRADE 5	
PS.6.5.1 Classify simple machines	<p>Motion, Forces, and Energy SE/TE: 124-135, 136-137</p>
	<p>Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M40; Guided Reading: 259-263; Transparency(ies): M41-44; Skills Lab: 266-268; Section Summary: 258; Review and Reinforce: 264; Enrich: 265</p>

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	<p>Motion, Forces, and Energy TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-2031</p>
PS.6.5.2 Conduct investigations using:	
<ul style="list-style-type: none"> levers (e.g., toothbrush) 	<p>Motion, Forces, and Energy SE/TE: 128-129, 134</p>
<ul style="list-style-type: none"> pulleys 	<p>Motion, Forces, and Energy SE/TE: 132-133, 135</p>
	<p>Motion, Forces, and Energy TECH: PHSchool.com Web Code: cgp-3043</p>
<ul style="list-style-type: none"> inclined planes-ramps, wedges, and screws 	<p>Motion, Forces, and Energy SE/TE: 125, 126, 127, 134, 135, 136-137</p>
	<p>Motion, Forces, and Energy TR: Skills Lab: 266-268</p>
<ul style="list-style-type: none"> wheels and axles 	<p>Motion, Forces, and Energy SE/TE: 130-132, 135</p>
PS.6.5.3 Relate simple machines to inventions and discoveries	<p>Motion, Forces, and Energy SE/TE: 124-135, 136-137, 138-139</p>
	<p>Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M40; Guided Reading: 259-263; Transparency(ies): M41 44; Skills Lab: 266-268; Section Summary: 258; Review and Reinforce: 264; Enrich: 265</p>
	<p>Motion, Forces, and Energy TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-2031, cgh-3040</p>
PS.6.5.4 Compare and contrast potential energy and kinetic energy as applied to motion	<p>Motion, Forces, and Energy SE/TE: 147, 150, 152, 158-163, 164-165</p>
	<p>Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M48; Guided Reading: 318-320; Transparency(ies): M49; Skills Lab: 323-326; Section Summary: 317; Review and Reinforce: 321; Enrich: 322</p>

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	Motion, Forces, and Energy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgp-3053
PS.6.5.5 Classify real world examples as potential energy or kinetic energy as applied to motion	Motion, Forces, and Energy SE/TE: 147, 150, 152, 158-163, 164-165
	Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M48; Guided Reading: 318-320; Transparency(ies): M49; Skills Lab: 323-326; Section Summary: 317; Review and Reinforce: 321; Enrich: 322
	Motion, Forces, and Energy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgp-3053
PS.6.5.6 Conduct investigations using potential energy and kinetic energy	Motion, Forces, and Energy SE/TE: 145, 158, 162, 164-165
	Motion, Forces, and Energy TR: Skills Lab: 323-326
PS.6.5.7 Investigate careers, scientists, and historical breakthroughs related to simple machines and potential and kinetic energy	Motion, Forces, and Energy SE/TE: xii-3
	Motion, Forces, and Energy TECH: PHSchool.com Web Code: cgb-3000
GRADE 6	
PS.6.6.1 Compare and contrast simple machines and compound machines	Motion, Forces, and Energy SE/TE: 124-135, 136-137
	Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M40; Guided Reading: 259-263; Transparency(ies): M41 44; Skills Lab: 266-268; Section Summary: 258; Review and Reinforce: 264; Enrich: 265
	Motion, Forces, and Energy TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-2031
PS.6.6.2 Identify and analyze the simple machines that make up a compound machine	Motion, Forces, and Energy SE/TE: 124-135, 136-137

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	<p>Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M40; Guided Reading: 259-263; Transparency(ies): M41-44; Skills Lab: 266-268; Section Summary: 258; Review and Reinforce: 264; Enrich: 265</p>
	<p>Motion, Forces, and Energy TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-2031</p>
PS.6.6.3 Conduct investigations of various forces using SI units (newton)	<p>Motion, Forces, and Energy SE/TE: 36, 37, 39</p>
	<p>Motion, Forces, and Energy TR: Transparency(ies): M12</p>
PS.6.6.4 Recognize and give examples of different types of forces:	
<ul style="list-style-type: none"> gravitational forces 	<p>Motion, Forces, and Energy SE/TE: 42, 46-50, 66</p> <p>Astronomy SE/TE: 16-17</p>
	<p>Motion, Forces, and Energy TR: Guided Reading: 115-118; Transparency(ies): M14</p>
<ul style="list-style-type: none"> magnetic forces 	<p>Electricity and Magnetism SE/TE: 8, 9</p>
<ul style="list-style-type: none"> friction 	<p>Motion, Forces, and Energy SE/TE: 40-41, 42-45, 50, 162</p>
	<p>Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M13; Guided Reading: 115-118; Consumer Lab: 109-112</p>
	<p>Motion, Forces, and Energy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-1322</p>
PS.6.6.5 Understand why objects have weight	<p>Motion, Forces, and Energy SE/TE: 47, 50</p> <p>Astronomy SE/TE: 17</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
PS.6.6.6 Compare and contrast weight and mass	Motion, Forces, and Energy SE/TE: 47, 50 Astronomy SE/TE: 17, 19
PS.6.6.7 Describe the effects of force:	
<ul style="list-style-type: none"> • move a stationary object 	Motion, Forces, and Energy SE/TE: 51-52
	Motion, Forces, and Energy TR: Guided Reading: 123-124
	Motion, Forces, and Energy TECH: PHSchool.com Web Code: cgd-3023
<ul style="list-style-type: none"> • speed up, slow down or change the direction of motion 	Motion, Forces, and Energy SE/TE: 22-27, 28-29
	Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M6; Guided Reading: 47-49, 63-65; Transparency(ies): M7-9; Skills Lab: 68-71; Section Summary: 62; Review and Reinforce: 66; Enrich: 67
	Motion, Forces, and Energy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-1313
<ul style="list-style-type: none"> • change the shape of objects 	Inside Earth SE/TE: 44-49
	Inside Earth TR: Reading Strategy Transparency(ies): 121; Guided Reading: 121-124; Transparency(ies): F14-15; Section Summary: 120; Review and Reinforce: 125; Enrich: 126
	Inside Earth TECH: Student Edition on Audio CD; www.SciLinks.org Web Code: scn-1021
PS.6.6.8 Conduct investigations to demonstrate change in direction caused by force	Motion, Forces, and Energy SE/TE: 55, 62-63
	Motion, Forces, and Energy TR: Skills Lab: 133-135

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
PS.6.6.9 Conduct investigations to calculate the change in speed caused by applying forces to an object	Motion, Forces, and Energy
	SE/TE: 5, 10-11, 15, 16-17
	Motion, Forces, and Energy
	TR: Skills Lab: 52-54
PS.6.6.10 Investigate careers, scientists, and historical breakthroughs related to compound machines and forces	Motion, Forces, and Energy
	SE/TE: 130-131
GRADE 7	
PS.6.7.1 Compare and contrast Newton's three laws of motion	Motion, Forces, and Energy
	SE/TE: 51-54, 55-61, 62-63
	Motion, Forces, and Energy
	TR: Reading Strategy Transparency(ies): M15, 17; Guided Reading: 123-124, 129-130; Transparency(ies): M18-19; Skills Lab: 133-135; Section Summary: 122, 128; Review and Reinforce: 125, 131; Enrich: 126, 132
	Motion, Forces, and Energy
	TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-3023, cgp-3024
PS.6.7.2 Conduct investigations demonstrating Newton's first law of motion	Motion, Forces, and Energy
	SE/TE: 51-52
	Motion, Forces, and Energy
	TECH: PHSchool.com Web Code: cgd-3023
PS.6.7.3 Demonstrate Newton's second law of motion	Motion, Forces, and Energy
	SE/TE: 52-54, 70
	Motion, Forces, and Energy
	TECH: PHSchool.com Web Code: cgd-3023
PS.6.7.4 Conduct investigations of Newton's third law of motion	Motion, Forces, and Energy
	SE/TE: 55
PS.6.7.5 Explain how Newton's three laws of motion apply to real world situations (e.g., sports, transportation)	Motion, Forces, and Energy
	SE/TE: 51-54, 55-61, 62-63

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	Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M15, 17; Guided Reading: 123-124, 129-130; Transparency(ies): M18-19; Skills Lab: 133-135; Section Summary: 122, 128; Review and Reinforce: 125, 131; Enrich: 126, 132
	Motion, Forces, and Energy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-3023, cgp-3024
PS.6.7.6 Investigate careers, scientists, and historical breakthroughs related to laws of motion	Motion, Forces, and Energy SE/TE: 51-54, 55-61 Astronomy SE/TE: 18
	Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M15, 17; Guided Reading: 123-124, 129-130; Transparency(ies): M18-19; Section Summary: 122, 128; Review and Reinforce: 125, 131; Enrich: 126, 132
	Motion, Forces, and Energy TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-3023, cgp-3024
GRADE 8	
PS.6.8.1 Model how motion and forces change Earth's surface:	
• compression	Inside Earth SE/TE: 45, 47, 48
	Inside Earth TR: Transparency(ies): F15
	Inside Earth TECH: www.SciLinks.org Web Code: scn-1021
• tension	Inside Earth SE/TE: 45
	Inside Earth TECH: www.SciLinks.org Web Code: scn-1021
• weathering	Earth's Changing Surface SE/TE: 38-45, 46-47, 80-81

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Earth's Changing Surface TR: Reading Strategy Transparency(ies): G11; Guided Reading: 111-114; Transparency(ies): G12-13; Skills Lab: 117-119; Section Summary: 110; Review and Reinforce: 115; Enrich: 116</p>
	<p>Earth's Changing Surface TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cfd-2021;</p>
<ul style="list-style-type: none"> erosion 	<p>Inside Earth SE/TE: 153, 156</p> <p>Earth's Changing Surface SE/TE: 39, 58, 72-81, 82-83, 87-88, 90, 91-95, 97-98, 99, 100, 101-103</p>
	<p>Earth's Changing Surface TR: Reading Strategy Transparency(ies): G21, 25, 30; Guided Reading: 175-178, 186-188, 193-195, 200-201, 206-207; Transparency(ies): G22-23, 24, 26, 27, 29, 31; Skills Lab: 181-183; Section Summary: 174, 192, 205; Review and Reinforce: 179, 196, 208; Enrich: 180, 197, 209;</p>
	<p>Inside Earth TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cfd-2032, cfh-2030, cfd-2033; www.SciLinks.org Web Code: scn-0734, scn-0735</p>
<p>PS.6.8.2 Conduct investigations demonstrating the field force (lines of force) in magnetic fields</p>	<p>Inside Earth SE/TE: 13, 26-27</p> <p>Electricity and Magnetism SE/TE: 8, 9</p>
<p>PS.6.8.3 Design and conduct investigations applying variables affecting the strength of an electromagnet</p>	<p>Electricity and Magnetism SE/TE: 83-84</p>
<p>PS.6.8.4 Analyze and compare the relationship between electricity and magnetism</p>	<p>Electricity and Magnetism SE/TE: 80-84, 85-89, 90-91, 92-93, 94-101</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Electricity and Magnetism</p> <p>TR: Reading Strategy Transparency(ies): N29, 33, 37; Guided Reading: 197-199, 209-212, 215-218; Transparency(ies): N30-32, 34-36, 38-41; Skills Lab: 209-212; Section Summary: 196, 203, 214; Review and Reinforce: 200, 207, 219; Enrich: 201, 208, 220</p>
	<p>Electricity and Magnetism</p> <p>TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-4033; www.SciLinks.org Web Code: scn-1431, scn-1432</p>
<p>PS.6.8.5 Investigate careers, scientists, and historical breakthroughs related to motion and forces that change Earth's surface</p>	<p>Motion, Forces, and Energy</p> <p>SE/TE: 51-54, 55-61</p>
	<p>Motion, Forces, and Energy</p> <p>TR: Reading Strategy Transparency(ies): M15, 17; Guided Reading: 123-124, 129-130; Transparency(ies): M18-19; Section Summary: 122, 128; Review and Reinforce: 125, 131; Enrich: 126, 132</p>
	<p>Motion, Forces, and Energy</p> <p>TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-3023, cgp-3024</p>
<p>Standard 7: Energy and Transfer of Energy - Students shall demonstrate and apply knowledge of energy and transfer of energy using appropriate safety procedures, equipment, and technology</p>	
<p>GRADE 5</p>	
<p>PS.7.5.1 Summarize how light can interact with matter through absorption, refraction, and reflection</p>	<p>Sound and Light</p> <p>SE/TE: 18-19, 107-109, 111, 112, 113-118, 119-123, 124</p>
	<p>Sound and Light</p> <p>TR: Reading Strategy Transparency(ies): O42, 47; Guided Reading: 247-249, 256-258, 263-265; Transparency(ies): O9, 10, 43-46, 48-49; Skills Lab: 252-253, 268-270; Section Summary: 255, 262; Review and Reinforce: 259, 266; Enrich: 260, 267</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Sound and Light</p> <p>TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgp-5042; www.SciLinks.org Web Code: scn-1543</p>
PS.7.5.2 Investigate how light travels and interacts with an object or material	<p>Sound and Light</p> <p>SE/TE: 106-111, 112</p>
	<p>Sound and Light</p> <p>TR: Guided Reading: 247-249; Transparency(ies): O39-41; Skills Lab: 252-253; Section Summary: 246; Review and Reinforce: 250; Enrich: 251</p>
	<p>Sound and Light</p> <p>TECH: Student Edition on Audio CD; Lab Activity Video/DVD; www.SciLinks.org Web Code: scn-1543</p>
PS.7.5.3 Conduct investigations demonstrating how an object can be seen	<p>Sound and Light</p> <p>SE/TE: 125-128</p>
	<p>Sound and Light</p> <p>TR: Reading Strategy Transparency(ies): 050; Guided Reading: 273-275 Transparency(ies): O51-52; Section Summary: 272; Review and Reinforce: 276; Enrich: 277</p>
	<p>TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cgd-5044;</p>
PS.7.5.4 Design and conduct investigations of transparent, translucent, and opaque as applied to light	<p>Sound and Light</p> <p>SE/TE: 106-111, 112</p>
	<p>Sound and Light</p> <p>TR: Guided Reading: 247-249; Transparency(ies): O39-41; Skills Lab: 252-253; Section Summary: 246; Review and Reinforce: 250; Enrich: 251</p>
	<p>Sound and Light</p> <p>TECH: Student Edition on Audio CD; Lab Activity Video/DVD; www.SciLinks.org Web Code: scn-1543</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
PS.7.5.5 Investigate physical interactions of light and matter and the effect on color perception:	
• refraction	Sound and Light SE/TE: 19, 120-121
• absorption	Sound and Light SE/TE: 107- 109
• transmission	Sound and Light SE/TE: 107
• scattering	Sound and Light SE/TE: 107
PS.7.5.6 Investigate careers, scientists, and historical breakthroughs related to light energy	Sound and Light SE/TE: 94, 134-135
GRADE 6	
PS.7.6.1 Classify examples of energy forms:	
• chemical	Environmental Science SE/TE: 159 Chemical Building Blocks SE/TE: 31, 32, 33 Motion, Forces, and Energy SE/TE: 154, 167, 168 Electricity and Magnetism SE/TE: 55, 56-57
	Motion, Forces, and Energy TR: Guided Reading: 309-310; Section Summary: 308; Review and Reinforce: 311; Enrich: 312
	Motion, Forces, and Energy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1352
• electromagnetic	Chemical Building Blocks SE/TE: 31, 32, 33 Motion, Forces, and Energy SE/TE: 155, 167 Sound and Light SE/TE: 71

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Motion, Forces, and Energy TR: Guided Reading: 309-310; Section Summary: 308; Review and Reinforce: 311; Enrich: 312</p>
	<p>Motion, Forces, and Energy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1352</p>
<ul style="list-style-type: none"> • mechanical 	<p>Environmental Science SE/TE: 158-159</p> <p>Motion, Forces, and Energy SE/TE: 151-152, 162, 195-196</p> <p>Electricity and Magnetism SE/TE: 86, 88, 98-99</p>
	<p>Motion, Forces, and Energy TR: Guided Reading: 309-310; Section Summary: 308; Review and Reinforce: 311; Enrich: 312</p>
	<p>Motion, Forces, and Energy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1352</p>
<ul style="list-style-type: none"> • thermal 	<p>Environmental Science SE/TE: 158-159</p> <p>Chemical Building Blocks SE/TE: 26, 31, 32, 33, 48</p> <p>Motion, Forces, and Energy SE/TE: 153, 178-179</p>
	<p>Motion, Forces, and Energy TR: Guided Reading: 309-310; Section Summary: 308; Review and Reinforce: 311; Enrich: 312</p>
	<p>Motion, Forces, and Energy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1352</p>

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<ul style="list-style-type: none"> nuclear 	<p>Environmental Science SE/TE: 174-175</p> <p>Astronomy SE/TE: 79, 137</p> <p>Chemical Building Blocks SE/TE: 109, 110</p> <p>Motion, Forces, and Energy SE/TE: 155, 167</p>
	<p>Environmental Science TR: Reading Strategy Transparency(ies): E46; Guided Reading: 331-333; Transparency(ies): E47-49; Section Summary: 330; Review and Reinforce: 334; Enrich: 335</p> <p>Motion, Forces, and Energy TR: Guided Reading: 309-310; Section Summary: 308; Review and Reinforce: 311; Enrich: 312</p>
	<p>Environmental Science TECH: Student Edition on Audio CD: PHSchool.com Web Code: cep-5053</p> <p>Motion, Forces, and Energy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1352</p>
<p>PS.7.6.2 Summarize the application of the law of conservation of energy in real world situations:</p>	
<ul style="list-style-type: none"> electrical energy into mechanical energy 	<p>Electricity and Magnetism SE/TE: 86-89, 92-93</p>
	<p>Electricity and Magnetism TR: Transparency(ies): N36; Skills Lab: 209-212</p>
	<p>Electricity and Magnetism TECH: Student Edition on Audio CD; www.SciLinks.org Web Code: scn-1432; PHSchool.com Web Code: cgp-4033</p>
<ul style="list-style-type: none"> electrical energy into heat 	<p>Motion, Forces, and Energy SE/TE: 159</p> <p>Electricity and Magnetism SE/TE: 68</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
• chemical energy into mechanical energy	Motion, Forces, and Energy SE/TE: 159
• chemical energy into light	Electricity and Magnetism SE/TE: 54-57, 58-59
	Electricity and Magnetism TR: Guided Reading: 129-131; Transparency(ies): N19-20; Consumer Lab: 134-137; Section Summary: 128; Review and Reinforce: 132; Enrich: 133
	Electricity and Magnetism TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-4034
PS.7.6.3 Conduct investigations demonstrating how energy can be converted from one form to another	Environmental Science SE/TE: 158-159 Chemical Building Blocks SE/TE: 30-33 Motion, Forces, and Energy SE/TE: 158-161, 163, 164-165 Electricity and Magnetism SE/TE: 86
	Environmental Science TR: Transparency(ies): E40 Chemical Building Blocks TR: Reading Strategy Transparency(ies): k7; Guided Reading: 69-70; Section Summary: 68; Review and Reinforce: 71; Enrich: 72 Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M48; Guided Reading: 318-320; Transparency(ies): M49; Skills Lab: 323-326; Section Summary: 317; Review and Reinforce: 321; Enrich: 322
	Chemical Building Blocks TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1114 Motion, Forces, and Energy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgp-3053

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
PS.7.6.4 Investigate the transfer of energy in real world situations:	
• conduction	Weather and Climate SE/TE: 42, 44-45
	Motion, Forces, and Energy SE/TE: 184-187
	Weather and Climate TR: Reading Strategy Transparency(ies): 113; Guided Reading: 119-121; Transparency(ies): 114; Section Summary: 118; Review and Reinforce: 122; Enrich: 123
	Motion, Forces, and Energy TR: Guided Reading: 376-378
	Weather and Climate TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0922
	Motion, Forces, and Energy TECH: www.SciLinks.org Web Code: scn-1362
• convection	Weather and Climate SE/TE: 44-45
	Motion, Forces, and Energy SE/TE: 184, 185, 187
	Weather and Climate TR: Reading Strategy Transparency(ies): 113; Guided Reading: 119-121; Transparency(ies): 114; Section Summary: 118; Review and Reinforce: 122; Enrich: 123
	Motion, Forces, and Energy TR: Guided Reading: 376-378
	Weather and Climate TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0922
	Motion, Forces, and Energy TECH: www.SciLinks.org Web Code: scn-1362
• radiation	Motion, Forces, and Energy SE/TE: 184, 185, 187

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	<p>Weather and Climate TR: Reading Strategy Transparency(ies): 113; Guided Reading: 119-121; Transparency(ies): 114; Section Summary: 118; Review and Reinforce: 122; Enrich: 123</p> <p>Motion, Forces, and Energy TR: Guided Reading: 376-378</p>
	<p>Weather and Climate TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0922</p> <p>Motion, Forces, and Energy TECH: www.SciLinks.org Web Code: scn-1362</p>
PS.7.6.5 Investigate careers, scientists, and historical breakthroughs related to energy forms and conversions	<p>Electricity and Magnetism SE/TE: 96-97</p>
GRADE 7	
PS.7.7.1 Identify natural resources used to supply energy needs	<p>Environmental Science SE/TE: 158-164</p> <p>Earth's Waters SE/TE: 161</p> <p>Motion, Forces, and Energy SE/TE: 166-169</p>
	<p>Environmental Science TR: Guided Reading: 313-316; Transparency(ies): E40-42; Section Summary: 312; Review and Reinforce: 317; Enrich: 318</p> <p>Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M50; Guided Reading: 329-330; Section Summary: 328; Review and Reinforce: 331; Enrich: 332</p>
	<p>Environmental Science TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0551</p> <p>Motion, Forces, and Energy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1354</p>
PS.7.7.2 Describe alternatives to the use of fossil fuels:	
<ul style="list-style-type: none"> • solar energy 	<p>Environmental Science SE/TE: 165-167, 171, 172-173</p>

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	Environmental Science TR: Reading Strategy Transparency(ies): E43; Guided Reading: 321-324; Technology Lab: 327-328; Transparency(ies): E44-45; Section Summary: 320; Review and Reinforce: 325; Enrich: 326
	Environmental Science TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0552; Lab Activity Video/DVD
<ul style="list-style-type: none"> geothermal energy 	Environmental Science SE/TE: 170
	Environmental Science TR: Reading Strategy Transparency(ies): E43; Guided Reading: 321-324; Transparency(ies): E44-45; Section Summary: 320; Review and Reinforce: 325; Enrich: 326
	Environmental Science TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0552;
<ul style="list-style-type: none"> wind 	Environmental Science SE/TE: 168-169

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	Environmental Science TR: Reading Strategy Transparency(ies): E43; Guided Reading: 321-324; Transparency(ies): E44-45; Section Summary: 320; Review and Reinforce: 325; Enrich: 326
	Environmental Science TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0552
• hydroelectric power	Environmental Science SE/TE: 168
	Environmental Science TR: Reading Strategy Transparency(ies): E43; Guided Reading: 321-324; Transparency(ies): E44-45; Section Summary: 320; Review and Reinforce: 325; Enrich: 326
	Environmental Science TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0552
• nuclear energy	Environmental Science SE/TE: 174-178 Chemical Building Blocks SE/TE: 109, 110 Motion, Forces, and Energy SE/TE: 155, 167
	Environmental Science TR: Reading Strategy Transparency(ies): E46; Guided Reading: 331-333; Transparency(ies): E47-49; Section Summary: 330; Review and Reinforce: 334; Enrich: 335 Motion, Forces, and Energy TR: Guided Reading: 309-310; Section Summary: 308; Review and Reinforce: 311; Enrich: 312
	Environmental Science TECH: Student Edition on Audio CD: PHSchool.com Web Code: cep-5053 Motion, Forces, and Energy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1352

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
• biomass	Environmental Science SE/TE: 168
PS.7.7.3 Conduct investigations to identify types of potential energy and kinetic energy	Chemical Building Blocks SE/TE: 30-31, 33 Motion, Forces, and Energy SE/TE: 146-150, 160-161
	Chemical Building Blocks TR: Transparency(ies): K7; Guided Reading: 69-70 Motion, Forces, and Energy TR: Reading Strategy Transparency(ies): M49; Guided Reading: 303-304; Transparency(ies): M47, 49; Section Summary: 302; Review and Reinforce: 305; Enrich: 306
	Motion, Forces, and Energy TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgp-3053; www.SciLinks.org Web Code: scn-1351
PS.7.7.4 Investigate alternative energy sources	Environmental Science SE/TE: 165-171, 172-173
	Environmental Science TR: Reading Strategy Transparency(ies): E43; Guided Reading: 321-324; Transparency(ies): E44-45; Technology Lab: 327-328; Section Summary: 320; Review and Reinforce: 325; Enrich: 326
	Environmental Science TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0552
PS.7.7.5 Investigate careers, scientists, and historical breakthroughs related to natural resources, alternative resources, electricity, and magnetism	Motion, Forces, and Energy SE/TE: 155 Electricity and Magnetism SE/TE: 90-91
GRADE 8	
PS.7.8.1 Construct open and closed electrical circuits:	
• series circuits	Electricity and Magnetism SE/TE: 64

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	Electricity and Magnetism TR: Reading Strategy Transparency(ies): N21; Guided Reading: 140-143; Transparency(ies): N22, 23, 24; Section Summary: 139; Review and Reinforce: 144; Enrich: 145
	Electricity and Magnetism TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgp-4023
• parallel circuits	Electricity and Magnetism SE/TE: 65-66
	Electricity and Magnetism TR: Reading Strategy Transparency(ies): N21; Guided Reading: 140-143; Transparency(ies): N22, 23, 24; Section Summary: 139; Review and Reinforce: 144; Enrich: 145
	Electricity and Magnetism TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgp-4023
PS.7.8.2 Describe and diagram open and closed series and parallel circuits	Electricity and Magnetism SE/TE: 64-66
	Electricity and Magnetism TR: Reading Strategy Transparency(ies): N21; Guided Reading: 140-143; Transparency(ies): N22, 23, 24; Section Summary: 139; Review and Reinforce: 144; Enrich: 145
	Electricity and Magnetism TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgp-4023
PS.7.8.3 Compare and contrast open and closed series circuits and parallel circuits	Electricity and Magnetism SE/TE: 63-66
	Electricity and Magnetism TR: Reading Strategy Transparency(ies): N21; Guided Reading: 140-143; Transparency(ies): N22, 23, 24; Section Summary: 139; Review and Reinforce: 144; Enrich: 145
	Electricity and Magnetism TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgp-4023

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
PS.7.8.4 Conduct investigations demonstrating the characteristics of a wave:	
<ul style="list-style-type: none"> wavelength 	Earth's Water SE/TE: 96, 101 Sound and Light SE/TE: 11, 13, 15
	Sound and Light TR: Reading Strategy Transparency(ies): O5; Guided Reading: 54-56; Transparency(ies): O6, 7; Section Summary: 53; Review and Reinforce: 57; Enrich: 58
	Sound and Light TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-5012
<ul style="list-style-type: none"> frequency 	Earth's Water SE/TE: 96 Electricity and Magnetism SE/TE: 119 Sound and Light SE/TE: 11, 13
	Sound and Light TR: Reading Strategy Transparency(ies): O5; Guided Reading: 54-56; Transparency(ies): O6, 7; Section Summary: 53; Review and Reinforce: 57; Enrich: 58
	Sound and Light TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-5012;
<ul style="list-style-type: none"> speed 	Sound and Light SE/TE: 11, 14-15
	Sound and Light TR: Reading Strategy Transparency(ies): O5; Guided Reading: 54-56; Transparency(ies): O6, 7; Section Summary: 53; Review and Reinforce: 57; Enrich: 58
	Sound and Light TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-5012
<ul style="list-style-type: none"> amplitude 	Electricity and Magnetism SE/TE: 119

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	Sound and Light
	SE/TE: 12, 20-21, 43, 90-91
	Sound and Light TR: Reading Strategy Transparency(ies): O5; Guided Reading: 54-56; Transparency(ies): O6, 7; Section Summary: 53; Review and Reinforce: 57; Enrich: 58
	Sound and Light TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-5012
PS.7.8.5 Conduct investigations of longitudinal and transverse waves to determine how they are different	Sound and Light SE/TE: 8-10, 11-13, 16, 28, 36-39
	Sound and Light TR: Guided Reading: 47-49; Transparency(ies): O2-4; Skills Lab: 59-60; Section Summary: 46; Review and Reinforce: 50; Enrich: 51
	Sound and Light TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-1511
PS.7.8.6 Explain how energy is transferred through waves:	
• seismic waves	Inside Earth SE/TE: 8, 52-53, 57
	Sound and Light SE/TE: 26-29
	Inside Earth TR: Guided Reading: 129-131; Transparency(ies): F17
	Sound and Light TR: Guided Reading: 74-76; Transparency(ies): O13; Section Summary: 73; Review and Reinforce: 77; Enrich: 78

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	<p>Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfp-1022</p> <p>Sound and Light TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1514</p>
<ul style="list-style-type: none"> • sound waves 	<p>Sound and Light SE/TE: 36-41</p>
	<p>Sound and Light TR: Reading Strategy Transparency(ies): O15; Guided Reading: 113-115; Transparency(ies): O16-18; Section Summary: 112; Review and Reinforce: 116; Enrich: 117</p>
	<p>Sound and Light TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1521</p>
<ul style="list-style-type: none"> • water waves 	<p>Sound and Light SE/TE: 7, 12, 20-21</p>
<ul style="list-style-type: none"> • electromagnetic waves 	<p>Electricity and Magnetism SE/TE: 118-121, 122</p> <p>Sound and Light SE/TE: 7, 70-73, 74-81, 82-83</p>
	<p>Electricity and Magnetism TR: Transparency(ies): N46</p> <p>Sound and Light TR: Reading Strategy Transparency(ies): O28, 30; Guided Reading: 183-184, 189-192; Transparency(ies): O29, 31-33; Section Summary: 182, 188; Review and Reinforce: 185, 193; Enrich: 186, 194</p>
	<p>Electricity and Magnetism TECH: PHSchool.com Web Code: cgp-4042</p> <p>Sound and Light TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgp-5032, cgh-5030; www.SciLinks.org Web Code: scn-1531</p>
<p>PS.7.8.7 Describe how waves travel through different kinds of media</p>	<p>Sound and Light SE/TE: 6-10, 26-29, 70-73, 74-81</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Sound and Light TR: Reading Strategy Transparency(ies): O1, 28, 30; Guided Reading: 47-49, 74-76, 183-184, 189-192; Transparency(ies): O2-4, 29, 31-33; Section Summary: 46, 73, 182, 188; Review and Reinforce: 50, 77, 185, 193; Enrich: 51, 78, 186, 194</p>
	<p>Sound and Light TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgp-5032, cgh-5030; www.SciLinks.org Web Code: scn-1511, scn-1514, scn-1531</p>
PS.7.8.8 Differentiate among reflection, refraction, and absorption of various types of waves	<p>Sound and Light SE/TE: 17-24, 24-25</p>
	<p>Sound and Light TR: Reading Strategy Transparency(ies): O8; Guided Reading: 63-66; Transparency(ies): O9-12; Skills Lab: 69-71; Section Summary: 62; Review and Reinforce: 67; Enrich: 68</p>
	<p>Sound and Light TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgp-5013;</p>
PS.7.8.9 Describe and diagram the electromagnetic spectrum	<p>Sound and Light SE/TE: 74-81</p>
	<p>Sound and Light TR: Reading Strategy Transparency(ies): O30; Guided Reading: 189-192; Transparency(ies): O31-33; Section Summary: 188; Review and Reinforce: 193; Enrich: 194</p>
	<p>Sound and Light TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgp-5032, cgh-5030;</p>
PS.7.8.10 Analyze the electromagnetic spectrum	<p>Sound and Light SE/TE: 74-81</p>

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	Sound and Light TR: Reading Strategy Transparency(ies): O30; Guided Reading: 189-192; Transparency(ies): O31-33; Section Summary: 188; Review and Reinforce: 193; Enrich: 194
	Sound and Light TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgp-5032, cgh-5030
PS.7.8.11 Investigate examples of real world uses of the electromagnetic spectrum	Sound and Light SE/TE: 76-81, 82-83
	Sound and Light TECH: PHSchool.com Web Code: cgh-5030
PS.7.8.12 Conduct investigations demonstrating the separation of white light into its spectrum using refraction	Sound and Light SE/TE: 19, 74, 120-121
PS.7.8.13 Compare ways to transfer information: • sound	Sound and Light SE/TE: 36-41, 42-47, 48-52, 53, 54-56, 57, 58-59, 60-63
	Sound and Light TR: Reading Strategy Transparency(ies): O15, 19, 22, 24, 26; Guided Reading: 113-115, 120-122, 127-129, 137-138, 145-147; Transparency(ies): O16-18, 20-21, 23, 25; Design Your Own Lab: 132-134; Technology Lab: 141-142; Section Summary: 112, 119, 126, 136, 144; Review and Reinforce: 116, 123, 130, 139, 148; Enrich: 117, 124, 131, 140, 149
	Sound and Light TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cgd-5022, cgp-5023, cgh-5020, cgd-5025; www.SciLinks.org Web Code: scn-1521
• light	Sound and Light SE/TE: 125-128, 129-137
	Sound and Light TR: Reading Strategy Transparency(ies): O50; Guided Reading: 273-275, 280-283; Transparency(ies): O51-52, 53-54; Section Summary: 272, 279; Review and Reinforce: 276, 284; Enrich: 277, 285

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	Sound and Light TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-5044; www.SciLinks.org Web Code: scn-1545
<ul style="list-style-type: none"> radio 	Sound and Light SE/TE: 76, 90-92, 94
	Sound and Light TR: Transparency(ies): O37; Guided Reading: 206-208
	Sound and Light TECH: www.SciLinks.org Web Code: scn-1534;
<ul style="list-style-type: none"> microwave energy 	Sound and Light SE/TE: 76, 82-83, 93
	Sound and Light TECH: PHSchool.com Web Code: cgh-5030
PS.7.8.14 Investigate careers, scientists, and historical breakthroughs related to waves and the electromagnetic spectrum	Sound and Light SE/TE: 82-83, 134-136
Strand 4: Earth and Space Science	
Standard 8: Earth Systems - Students shall demonstrate and apply knowledge of Earth's structure and properties using appropriate safety procedures, equipment, and technology	
GRADE 5	
ESS.8.5.1 Identify some basic elements composing minerals:	
<ul style="list-style-type: none"> silicon 	Inside Earth SE/TE: 89, 94, 95, 124-127, 200 Chemical Building Blocks SE/TE: 105
	Inside Earth TR: Reading Strategy Transparency(ies): F37; Guided Reading: 262-264; Transparency(ies): F38; Section Summary: 261; Review and Reinforce: 265; Enrich: 266
	Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-1042. cfh-1040
<ul style="list-style-type: none"> oxygen 	Inside Earth SE/TE: 200, 201 Chemical Building Blocks SE/TE: 102

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
• iron	Inside Earth SE/TE: 132, 200 Chemical Building Blocks SE/TE: 83, 92
• sodium	Inside Earth SE/TE: 201 Chemical Building Blocks SE/TE: 90
• chlorine	Inside Earth SE/TE: 201 Chemical Building Blocks SE/TE: 103
• calcium	Inside Earth SE/TE: 201 Chemical Building Blocks SE/TE: 86, 91
• carbon	Inside Earth SE/TE: 200-201 Chemical Building Blocks SE/TE: 100
• hydrogen	Inside Earth SE/TE: 201 Chemical Building Blocks SE/TE: 104, 119
• aluminum	Inside Earth SE/TE: 200-201 Chemical Building Blocks SE/TE: 91, 92
ESS.8.5.2 Investigate the growth of crystals	Inside Earth SE/TE: 113, 124-127
	Inside Earth TR: Reading Strategy Transparency(ies): F37; Guided Reading: 262-264; Transparency(ies): F38; Section Summary: 261; Review and Reinforce: 265; Enrich: 266

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	Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-1042. cfh-1040
ESS.8.5.3 Identify characteristics of minerals	Inside Earth SE/TE: 113, 114-122, 124-127
	Inside Earth TR: Reading Strategy Transparency(ies): F35, 37; Guided Reading: 251-254, 262-264; Skills Lab: 257; Transparency(ies): F36, 38; Section Summary: 250, 261; Review and Reinforce: 255, 265; Enrich: 256, 266
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041, cfd-1042. cfh-1040
ESS.8.5.4 Conduct investigations on mineral properties:	
• luster	Inside Earth SE/TE: 117
• hardness	Inside Earth SE/TE: 118-119
• streak	Inside Earth SE/TE: 117
• acid test for calcite	Inside Earth SE/TE: 157, 201
• fluorescence	Inside Earth SE/TE: 122
ESS.8.5.5 Identify the following minerals:	
• halite (salt)	Inside Earth SE/TE: 114-122, 123, 126, 127, 155, 201
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36, 38; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041, cfd-1042;
• feldspar	Inside Earth SE/TE: 114-122, 123, 145, 150, 201

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	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
<ul style="list-style-type: none"> • sulfur 	Inside Earth SE/TE: 114-122, 123, 201
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
<ul style="list-style-type: none"> • quartz 	Inside Earth SE/TE: 114-122, 123, 131, 145, 201
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
<ul style="list-style-type: none"> • diamonds 	Inside Earth SE/TE: 114-122, 123, 201
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
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• gypsum	Inside Earth SE/TE: 114-122, 123, 131, 201
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
• calcite	Inside Earth SE/TE: 114-122, 123, 126, 155, 157, 158, 201
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041, cfd-1042
• talc	Inside Earth SE/TE: 114-122, 123, 131, 201
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
• hematite (iron)	Inside Earth SE/TE: 114-122, 123, 134, 200
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
<ul style="list-style-type: none"> precious metals (gold, silver) 	Inside Earth SE/TE: 114-122, 123, 126, 127, 200
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041, cfd-1042
ESS.8.5.6 Identify minerals found in Arkansas:	
<ul style="list-style-type: none"> bauxite 	Inside Earth SE/TE: 114-122, 123, 201
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
<ul style="list-style-type: none"> diamonds 	Inside Earth SE/TE: 114-122, 123, 201
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
<ul style="list-style-type: none"> quartz 	Inside Earth SE/TE: 114-122, 123, 131, 145, 201

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	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
• galena	Inside Earth SE/TE: 114-122, 123, 200
	Inside Earth TR: Reading Strategy Transparency(ies): F35; Guided Reading: 251-254; Transparency(ies): F36; Skills Lab: 257; Section Summary: 250; Review and Reinforce: 255; Enrich: 256
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1041, cfp-1041
ESS.8.5.7 Identify characteristics of sedimentary, igneous, and metamorphic rocks	Inside Earth SE/TE: 144-147, 148-151, 152-156, 157-159, 160-162, 163
	Inside Earth TR: Reading Strategy Transparency(ies): F42, 43, 45, 47, 48; Guided Reading: 309-312, 317-320, 325-329, 334-336, 341-343 Transparency(ies): F44, 46, 49; Skills Lab: 346-348; Section Summary: 308, 316, 324, 333, 340; Review and Reinforce: 313, 321, 330, 337, 344; Enrich: 314, 322, 331, 338, 345
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1051, cfd-1054; www.SciLinks.org Web Code: scn-1052, scn-1053, cfa-1055

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
ESS.8.5.8 Compare and contrast by investigation characteristics of the three basic types of rocks:	
• sedimentary	Inside Earth SE/TE: 152-156, 157-162, 163
	Inside Earth TR: Reading Strategy Transparency(ies): F45; Guided Reading: 325-329; Transparency(ies): F46; Section Summary: 324; Review and Reinforce: 330; Enrich: 331
	Inside Earth TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1053
• igneous	Inside Earth SE/TE: 148-151
	Inside Earth TR: Reading Strategy Transparency(ies): F43, 47; Guided Reading: 317-320, 334-336; Transparency(ies): F44; Section Summary: 316, 333; Review and Reinforce: 321, 337; Enrich: 322, 338
	Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-1054; www.SciLinks.org Web Code: scn-1052
• metamorphic	Inside Earth SE/TE: 160-162, 163
	Inside Earth TR: Reading Strategy Transparency(ies): F48; Guided Reading: 341-343; Transparency(ies): F49; Skills Lab: 346-348; Section Summary: 340; Review and Reinforce: 344; Enrich: 345
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-cfa- 1055
ESS.8.5.9 Classify the three basic types of rocks	Inside Earth SE/TE: 144-147
	Inside Earth TR: Reading Strategy Transparency(ies): F42; Guided Reading: 309-312; Section Summary: 308; Review and Reinforce: 313; Enrich: 314

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-1051
ESS.8.5.10 Investigate careers, scientists, and historical breakthroughs related to minerals and rocks	Inside Earth SE/TE: x-3, 132-133
	Inside Earth TECH: PHSchool.com Web Code: cfb-1000
ESS.8.5.11 Investigate the formation of soil	Inside Earth SE/TE: 102 Earth's Changing Surface SE/TE: 48-54, 55
	Earth's Changing Surface TR: Guided Reading: 122-125; Transparency(ies): G14-16; Consumer Lab: 128-129; Section Summary: 121; Review and Reinforce: 126; Enrich: 127
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2022
ESS.8.5.12 Conduct investigations on sedimentation	Inside Earth SE/TE: 152
ESS.8.5.13 Describe and illustrate the rock cycle	Inside Earth SE/TE: 164-166, 167
	Inside Earth TR: Reading Strategy Transparency(ies): F50; Guided Reading: 351-352; Transparency(ies): F51; Design Your Own Lab: 355-356; Section Summary: 350; Review and Reinforce: 353; Enrich: 354
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-1056
GRADE 6	
ESS.8.6.1 Identify and diagram the layers of the Earth:	
• crust	Inside Earth SE/TE: 10
• mantle	Inside Earth SE/TE: 11

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Inside Earth TR: Transparency(ies): F12
• inner and outer core	Inside Earth SE/TE: 12-13
ESS.8.6.2 Model the layers of the Earth	Inside Earth SE/TE: 5, 6-13
	Inside Earth TR: Reading Strategy Transparency(ies): F1, Guided Reading: 47-50; Transparency(ies): F2, Section Summary: 46; Review and Reinforce: 53; Enrich: 51
	Inside Earth TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1011
ESS.8.6.3 Model how convection currents in the mantle affect lithosphere movement	Inside Earth SE/TE: 14-17, 32-36, 37
	Inside Earth TR: Reading Strategy Transparency(ies): F3 Guided Reading: 55-57, 79-81; Transparency(ies): F4, 10-12; Skills Lab: 84-85; Section Summary: 54, 78; Review and Reinforce: 58, 82; Enrich: 59, 83
	Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-1012, cfp-1015
ESS.8.6.4 Conduct investigations to identify the variables within volcanoes that cause different types of eruptions	Inside Earth SE/TE: 87-90, 91-98
	Inside Earth TR: Reading Strategy Transparency(ies): F27, 28; Guided Reading: 195-197, 220-206; Transparency(ies): F29; Section Summary: 194, 201; Review and Reinforce: 198, 207; Enrich: 199, 208
	Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfp-1033; www.SciLinks.org Web Code: scn-1032
ESS.8.6.5 Diagram and explain how volcanoes work	Inside Earth SE/TE: 82-85, 86, 91-98, 99-105, 106-107

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	Inside Earth TR: Reading Strategy Transparency(ies): F24, 28; Guided Reading: 185-187, 202-206, 211-214; Transparency(ies): F31-33; Skills Lab: 190-192, 217-218; Section Summary: 184, 201, 210; Review and Reinforce: 188, 207, 215; Enrich: 189, 208, 216
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1031, cfp-1033; www.SciLinks.org Web Code: scn-1034
ESS.8.6.6 Explain how volcanic activity relates to mountain formation	Inside Earth SE/TE: 99-105, 106-107
	Inside Earth TR: Reading Strategy Transparency(ies): F30; Guided Reading: 211-214; Transparency(ies): F31-33; Skills Lab: 217-218; Section Summary: 210; Review and Reinforce: 215; Enrich: 216
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-1034
ESS.8.6.7 Connect short-term changes in climate with volcanic activity	Weather and Climate SE/TE: 133, 134
ESS.8.6.8 Compare and contrast the different land forms caused by Earth's internal forces:	
<ul style="list-style-type: none"> • mountains 	Inside Earth SE/TE: 22, 35, 48-49, 50, 100-101
	Inside Earth TR: Transparency(ies): F11, 31
<ul style="list-style-type: none"> • plateaus 	Inside Earth SE/TE: 50, 101
<ul style="list-style-type: none"> • trenches 	Inside Earth SE/TE: 28-29, 84 Earth's Waters SE/TE: 135, 136, 137, 138, 139

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Inside Earth TR: Transparency(ies): F9</p> <p>Earth's Waters TR: Transparency(ies): H42</p>
<ul style="list-style-type: none"> islands 	<p>Inside Earth SE/TE: 84</p> <p>Earth's Waters SE/TE: 134</p>
	<p>Earth's Waters TR: Transparency(ies): H42</p>
<p>ESS.8.6.9 Research local, regional, and state landforms created by internal forces in the earth:</p>	
<ul style="list-style-type: none"> Ozark Plateau 	<p>Content is introduced which can be developed to address specific features and land forms in Arkansas.</p> <p>Inside Earth SE/TE: 50, 101</p>
<ul style="list-style-type: none"> Crater of Diamonds 	<p>Content is introduced which can be developed to address specific features and land forms in Arkansas.</p> <p>Inside Earth SE/TE: 99-105, 106-107</p>
	<p>Inside Earth TR: Reading Strategy Transparency(ies): F30; Guided Reading: 211-214; Transparency(ies): F31-33; Skills Lab: 217-218; Section Summary: 210; Review and Reinforce: 215; Enrich: 216</p>
	<p>Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-1034</p>
<ul style="list-style-type: none"> Ouachita Mountains 	<p>Content is introduced which can be developed to address specific features and land forms in Arkansas.</p> <p>Inside Earth SE/TE: 22, 35, 48-49, 50, 100-101</p>
	<p>Inside Earth TR: Transparency(ies): F11</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
<ul style="list-style-type: none"> New Madrid Fault 	<p>Content is introduced which can be developed to address specific features and land forms in Arkansas.</p> <p>Inside Earth SE/TE: 44-47</p>
	<p>Inside Earth TR: Guided Reading: 121-124; Transparency(ies): F14, 15</p>
	<p>Inside Earth TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1021</p>
ESS.8.6.10 Identify the effects of earthquakes on Earth's surface:	
<ul style="list-style-type: none"> tsunamis 	<p>Inside Earth SE/TE: 71</p>
<ul style="list-style-type: none"> floods 	<p>Inside Earth SE/TE: 71</p>
<ul style="list-style-type: none"> changes in natural and man-made structures 	<p>Inside Earth SE/TE: 70-73, 74-75</p>
	<p>Inside Earth TR: Transparency(ies): F2</p>
	<p>Inside Earth TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-1024, cfh-1020</p>
ESS.8.6.11 Investigate and map patterns of earthquake and volcanic activity	
	<p>Inside Earth SE/TE: 58-59, 62-65, 66-67, 69, 82-85, 86</p> <p>TR: Reading Strategy Transparency(ies): F24; Guided Reading: 185-187; Transparency(ies): F20, 25, 26; Skills Lab: 134-136, 144-145, 190-192; Section Summary: 184; Review and Reinforce: 188; Enrich: 189</p>
	<p>TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1031; www.SciLinks.org Web Code: scn-1023</p>
ESS.8.6.12 Locate earthquake belts on Earth:	
<ul style="list-style-type: none"> Mediterranean-Trans-Asiatic 	<p>Inside Earth SE/TE: 83, 86</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Inside Earth TR: Skills Lab: 190-192
• Circum-Pacific (Ring of Fire)	Inside Earth SE/TE: 83, 86
	Inside Earth TR: Skills Lab: 190-192
ESS.8.6.13 Analyze how earthquake occurrences are recorded (seismograph) and measured (Richter scale)	Inside Earth SE/TE: 51-57, 58-59, 60-65, 66-67
	Inside Earth TR: Reading Strategy Transparency(ies): F16, 18; Guided Reading: 129-131, 139-141; Transparency(ies): F17, 19-20; Skills Lab: 134-136, 144-145; Section Summary: 128, 138; Review and Reinforce: 132, 142; Enrich: 133, 143
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-1022; www.SciLinks.org Web Code: scn-1023
ESS.8.6.14 Model the effect of major geological events on land and ocean features:	
• mountain building	Inside Earth SE/TE: 22, 35, 48-49, 50, 100-101
	Inside Earth TR: Transparency(ies): F11, 31
• ocean trenches	Inside Earth SE/TE: 28-29, 84 Earth's Waters SE/TE: 135, 136, 137, 138, 139
	Inside Earth TR: Transparency(ies): F9 Earth's Waters TR: Transparency(ies): H42
• island formation	Inside Earth SE/TE: 84 Earth's Waters SE/TE: 134

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	Earth's Waters TR: Transparency(ies): H42
• mid-ocean ridges	Inside Earth SE/TE: 23-29, 30-31, 83
	Inside Earth TR: Reading Strategy Transparency(ies): F7; Guided Reading: 68-70 Transparency(ies): F8-9; Skills Lab: 73-76; Section Summary: 67; Review and Reinforce: 71; Enrich: 72
	Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1014
ESS.8.6.15 Investigate careers, scientists, and historical breakthroughs related to internal forces that change the Earth	Inside Earth SE/TE: x-3, 18-22, 23, 54-55, 61-62
	Inside Earth TECH: PHSchool.com Web Code: cfb-1000
GRADE 7	
ESS.8.7.1 Describe the composition and physical characteristics of the atmosphere	Weather and Climate SE/TE: 6-9, 10-14, 15, 16-21
	Weather and Climate TR: Reading Strategy Transparency(ies): 11, 3, 6; Guided Reading: 47-49, 54-56, 63-65; Transparency(ies): 12, 4, 5, 7; Skills Lab: 59-60; Section Summary: 46, 53, 62; Review and Reinforce: 50, 57, 66; Enrich: 51, 58, 67
	Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-4012, cfd-4013; www.SciLinks.org Web Code: scn-0911
ESS.8.7.2 Investigate the influence of global patterns on local weather:	
• movement of air masses	Weather and Climate SE/TE: 72-79, 112
	Weather and Climate TR: Reading Strategy Transparency(ies): 123 Guided Reading: 181-183; Transparency(ies): 124-129; Section Summary: 180; Review and Reinforce: 184; Enrich: 185

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Weather and Climate TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfp-4031
<ul style="list-style-type: none"> • Coriolis effect 	Earth's Waters SE/TE: 117 Weather and Climate SE/TE: 49, 50-52, 78
	Weather and Climate TECH: PHSchool.com Web Code: cfp-4023
<ul style="list-style-type: none"> • jet stream 	Weather and Climate SE/TE: 52, 75
<ul style="list-style-type: none"> • global wind belts 	Weather and Climate SE/TE: 47, 49-52
	Weather and Climate TR: Transparency(ies): I17
	Weather and Climate TECH: PHSchool.com Web Code: cfp-4023
ESS.8.7.3 Conduct investigations demonstrating the effects of solar energy on the atmosphere	Weather and Climate SE/TE: 36-39, 40-41, 42-45, 133, 139
	Weather and Climate TR: Reading Strategy Transparency(ies): I10, 13; Guided Reading: 109-111, 119-121; Transparency(ies): I11, 12, 14; Skills Lab: 114-116; Section Summary: 108, 118; Review and Reinforce: 112, 122; Enrich: 113, 123
	Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0921, scn-0922
ESS.8.7.4 Investigate the effect that oceans have on climate	Weather and Climate SE/TE: 108-111, 115
	Weather and Climate TR: Guided Reading: 239-242; Transparency(ies): I39
ESS.8.7.5 Identify elements of weather:	
<ul style="list-style-type: none"> • temperature 	Weather and Climate SE/TE: 18-21, 42-45, 73, 108-111, 115

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	Weather and Climate TR: Reading Strategy Transparency(ies): 113; Guided Reading: 119-121, 239-242; Transparency(ies): 114, 39; Section Summary: 118; Review and Reinforce: 122; Enrich: 123
	Weather and Climate TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0922
<ul style="list-style-type: none"> • air pressure 	Weather and Climate SE/TE: 10-14, 15, 49, 78-79
	Weather and Climate TR: Reading Strategy Transparency(ies): 13; Guided Reading: 54-56; Transparency(ies): 14, 5; Skills Lab: 59-60; Section Summary: 53; Review and Reinforce: 57; Enrich: 58
	Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-4012
<ul style="list-style-type: none"> • wind speed 	Weather and Climate SE/TE: 47, 53
	Weather and Climate TR: Technology Lab: 131-132
	Weather and Climate TECH: Lab Activity Video/DVD:
<ul style="list-style-type: none"> • wind direction 	Weather and Climate SE/TE: 46-52, 53
	Weather and Climate TR: Reading Strategy Transparency(ies): 115; Guided Reading: 126-128; Transparency(ies): 116- 17; Technology Lab: 131-132; Section Summary: 125; Review and Reinforce: 129; Enrich: 130
	Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-4023
<ul style="list-style-type: none"> • humidity 	Weather and Climate SE/TE: 55-56, 60, 73-74

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	Weather and Climate TR: Reading Strategy Transparency(ies): 118; Guided Reading: 135-137; Section Summary: 134; Review and Reinforce: 138; Enrich: 139
	Weather and Climate TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfp-4024
ESS.8.7.6 Conduct investigations using weather measurement devices:	
<ul style="list-style-type: none"> • anemometers 	Weather and Climate SE/TE: 47
<ul style="list-style-type: none"> • barometers 	Weather and Climate SE/TE: 12-13, 18
<ul style="list-style-type: none"> • sling psychrometers 	Weather and Climate SE/TE: 56
<ul style="list-style-type: none"> • thermometers 	Weather and Climate SE/TE: 43, 56
<ul style="list-style-type: none"> • weather charts 	Weather and Climate SE/TE: 96-98, 99
	Weather and Climate TR: Transparency(ies): 136, 37
ESS.8.7.7 Predict weather conditions using data on the following:	
<ul style="list-style-type: none"> • temperature 	Weather and Climate SE/TE: 18-21, 55, 71, 73-74, 92-98 99, 104
	Weather and Climate TR: Reading Strategy Transparency(ies): 135; Guided Reading: 199-202; Transparency(ies): 136, 37; Skills Lab: 204-205; Section Summary: 198; Review and Reinforce: 202; Enrich: 203
	Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-4033, cfh-4030
<ul style="list-style-type: none"> • air pressure: highs, lows, fronts 	Weather and Climate SE/TE: 10-13, 49, 71, 75-77, 78-79, 92-98 99, 104

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	<p>Weather and Climate TR: Reading Strategy Transparency(ies): 135; Guided Reading: 199-202; Transparency(ies): 136, 37; Skills Lab: 204-205; Section Summary: 198; Review and Reinforce: 202; Enrich: 203</p>
	<p>Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-4031, cfd-4033, cfh-4030</p>
<ul style="list-style-type: none"> clouds 	<p>Weather and Climate SE/TE: 58-60, 61-62, 71, 81, 83, 92-98 99, 104</p>
	<p>Weather and Climate TR: Reading Strategy Transparency(ies): 135; Guided Reading: 142-144, 199-202; Transparency(ies): 119, 32, 33, 36, 37; Skills Lab: 204-205; Section Summary: 198; Review and Reinforce: 202; Enrich: 203</p>
	<p>Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-4033, cfh-4030; www.SciLinks.org Web Code: scn- 0925</p>
<ul style="list-style-type: none"> wind speed 	<p>Weather and Climate SE/TE: 71, 92-98 99, 104</p>
	<p>Weather and Climate TR: Reading Strategy Transparency(ies): 135; Guided Reading: 199-202; Transparency(ies): 136, 37; Skills Lab: 204-205; Section Summary: 198; Review and Reinforce: 202; Enrich: 203</p>
	<p>Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-4033, cfh-4030</p>
<ul style="list-style-type: none"> wind direction 	<p>Weather and Climate SE/TE: 71, 92-98 99, 104</p>

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	<p>Weather and Climate TR: Reading Strategy Transparency(ies): 135; Guided Reading: 199-202; Transparency(ies): 136, 37; Skills Lab: 204-205; Section Summary: 198; Review and Reinforce: 202; Enrich: 203</p>
	<p>Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-4033, cfh-4030</p>
<ul style="list-style-type: none"> • humidity 	<p>Weather and Climate SE/TE: 71, 92-98 99, 104</p>
	<p>Weather and Climate TR: Reading Strategy Transparency(ies): 135; Guided Reading: 199-202; Transparency(ies): 136, 37; Skills Lab: 204-205; Section Summary: 198; Review and Reinforce: 202; Enrich: 203</p>
	<p>Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-4033, cfh-4030</p>
<p>ESS.8.7.8 Identify the causes and effects of weather-related phenomena:</p>	
<ul style="list-style-type: none"> • thunderstorms 	<p>Weather and Climate SE/TE: 80-83, 89</p>
	<p>Weather and Climate TR: Reading Strategy Transparency(ies): 130; Guided Reading: 188-191; Section Summary: 187; Review and Reinforce: 192; Enrich: 193</p>
	<p>Weather and Climate TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-4032</p>
<ul style="list-style-type: none"> • tornadoes/ hurricanes/cyclones/ typhoons 	<p>Weather and Climate SE/TE: 78, 80, 83-85, 86-87, 89, 90-91</p>
	<p>Weather and Climate TR: Transparency(ies): 132, 33; Skills Lab: 194-196</p>
	<p>Weather and Climate TECH: Lab Activity Video/DVD:</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
• drought	Weather and Climate SE/TE: 64, 130, 135, 136
• acid precipitation	Environmental Science SE/TE: 140, 143 Weather and Climate SE/TE: 24
	Weather and Climate TECH: PHSchool.com Web Code: cfd-4014
ESS.8.7.9 Explain tornado belt weather patterns using a map of the United States	Weather and Climate SE/TE: 83
ESS.8.7.10 Describe ways human beings protect themselves, others, and their property from adverse weather conditions	Weather and Climate SE/TE: 85, 87, 89
ESS.8.7.11 Describe and map climates of major Earth regions	Weather and Climate SE/TE: 118-127, 128-129
	Weather and Climate TR: Reading Strategy Transparency(ies): 143; Guided Reading: 250-252; Transparency(ies): 144, 45; Consumer Lab: 255-256; Section Summary: 249; Review and Reinforce: 253; Enrich: 254
	Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0942
ESS.8.7.12 Analyze the effect of the shape of Earth and the tilt of Earth's axis on climate	Weather and Climate SE/TE: 114-115
	Weather and Climate TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfp-5012
ESS.8.7.13 Identify and explain the effects that human activities have on weather and atmosphere	Environmental Science SE/TE: 138-140, 143, 146-151 Weather and Climate SE/TE: 22-25, 26-27

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	<p>Environmental Science TR: Reading Strategy Transparency(ies): E34, 36; Guided Reading: 265-267, 274-276; Transparency(ies): E35, 37, 38; Section Summary: 273; Review and Reinforce: 277; Enrich: 278</p> <p>Weather and Climate TR: Reading Strategy Transparency(ies): 18; Guided Reading: 70-72; Design Your Own Lab: 75-77; Section Summary: 69; Review and Reinforce: 73; Enrich: 74</p>
	<p>Environmental Science TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0545</p> <p>Weather and Climate TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-4014, cfd-4010, cfh-4010</p>
ESS.8.7.14 Describe causes and effects of acid precipitation	<p>Environmental Science SE/TE: 140, 143</p> <p>Weather and Climate SE/TE: 23-24</p>
	<p>Weather and Climate TECH: PHSchool.com Web Code: cfd-4014</p>
ESS.8.7.15 Investigate careers, scientists, and historical breakthroughs related to atmosphere and weather	<p>Weather and Climate SE/TE: x-3, 18-19</p>
	<p>Weather and Climate TECH: PHSchool.com Web Code: cfb-4000</p>
ESS.8.7.16 Conduct investigations demonstrating the water cycle	<p>Environmental Science SE/TE: 48-49, 53, 168</p> <p>Earth's Waters SE/TE: 16-17</p> <p>Weather and Climate SE/TE: 54-55</p>
	<p>Environmental Science TR: Transparency(ies): E15</p>
	<p>Earth's Waters TECH: PHSchool.com Web Code</p>

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	Weather and Climate
	TECH: PHSchool.com Web Code: cfp-4024
ESS.8.7.17 Explain the relationship between the water cycle and ground water	Environmental Science
	SE/TE: 48-49, 53, 168
	Earth's Waters
	SE/TE: 15-17
	Weather and Climate
	SE/TE: 54-55
	Environmental Science
	TR: Transparency(ies): E15
	Earth's Waters
	TECH: PHSchool.com Web Code
	Weather and Climate
	TECH: PHSchool.com Web Code: cfp-4024
ESS.8.7.18 Investigate cloud formation	Weather and Climate
	SE/TE: 57-60, 61, 63, 81, 83
	Weather and Climate
	TR: Transparency(ies): I19, 20
ESS.8.7.19 Conduct investigations demonstrating the greenhouse effect	Environmental Science
	SE/TE: 150-151
	Weather and Climate
	SE/TE: 39, 137
	Environmental Science
	TR: Transparency(ies): E38
	Weather and Climate
	TR: Transparency(ies): I48
	Environmental Science
	TECH: www.SciLinks.org Web Code: scn-0545
ESS.8.7.20 Research how human activities may contribute to global warming	Environmental Science
	SE/TE: 150-151
	Weather and Climate
	SE/TE: 39, 137
	Environmental Science
	TR: Transparency(ies): E38
	Weather and Climate
	TR: Transparency(ies): I48
	Environmental Science
	TECH: www.SciLinks.org Web Code: scn-0545

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ESS.8.7.21 Explain examples of actual events that cause temporary climate changes:	
• volcanic dust	Weather and Climate
	SE/TE: 133
• drought	Weather and Climate
	SE/TE: 64, 130, 135, 136
• meteor impact	Earth's Changing Surface
	SE/TE: 143
GRADE 8	
ESS.8.8.1 Analyze the causes and predict the consequences of global warming on the following:	
• weather	Weather and Climate
	SE/TE: 135-139,, 141
• temperature	Weather and Climate
	SE/TE: 138-1329
• ocean water levels	Weather and Climate
	SE/TE: 135-136
ESS.8.8.2 Investigate how global patterns of water currents influence local weather:	
• Gulf Stream	Earth's Waters
	SE/TE: 117, 118
	Weather and Climate
	SE/TE: 111
	Earth's Waters
	TR: Skills Lab: 224-225
	Earth's Waters
	TECH: Lab Activity Video/DVD:
• Atlantic Currents	Earth's Waters
	SE/TE: 117, 122-123
	Weather and Climate
	SE/TE: 111
	Earth's Waters
	TR: Skills Lab: 224-225
	Earth's Waters
	TECH: Lab Activity Video/DVD:
• California Current	Weather and Climate
	SE/TE: 111

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ESS.8.8.3 Conduct investigations to compare and contrast different landforms found on Earth:	
• mountains	Inside Earth
	SE/TE: 48-49, 100-101, 104
	Earth's Changing Surface
	SE/TE: 9, 39
	Inside Earth
	TR: Transparency(ies): F31
	Earth's Changing Surface
	TR: Transparency(ies): G2, 3
	Earth's Changing Surface
	TECH: www.SciLinks.org Web Code: scn-0711
• plateaus	Inside Earth
	SE/TE: 101
	Earth's Changing Surface
	SE/TE: 9
	Earth's Changing Surface
	TR: Transparency(ies): G2, 3
	Earth's Changing Surface
	TECH: www.SciLinks.org Web Code: scn-0711
• plains	Earth's Changing Surface
	SE/TE: 8
	Earth's Changing Surface
	TR: Transparency(ies): G2, 3
	Earth's Changing Surface
	TR: Transparency(ies): G2, 3
ESS.8.8.4 Synthesize and model the result of both constructive and destructive forces on land forms:	
• deposition	Inside Earth
	SE/TE: 153
	Earth's Changing Surface
	SE/TE: 67, 76-77, 90, 94, 99-100, 103
	Earth's Changing Surface
	TR: Guided Reading: 167-168; Transparency(ies): G23
• erosion	Inside Earth
	SE/TE: 153, 166
	Earth's Water
	SE/TE: 100-101

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	Earth's Changing Surface
	SE/TE: 39, 66-69, 72-81, 82-83, 86-90, 91-95, 96-100, 101-103
	Earth's Changing Surface TR: Reading Strategy Transparency(ies): G19, 21, 25, 28, 30; Guided Reading: 167-168, 175-178, 186-188 193-195, 200-201, 206-207; Transparency(ies): G20, 22, 23, 24, 26, 27, 29, 31; Skills Lab: 171-172, 181-183; Section Summary: 166, 174, 185, 192, 199, 205; Review and Reinforce: 169, 179, 189, 196, 202, 208; Enrich: 170, 180, 190, 197, 203, 209
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2031, cfd-2031, cfh-2030, cfh-2030, cfd-2033; www.SciLinks.org Web Code: scn-0734, scn-0735
• weathering	Earth's Changing Surface SE/TE: 38-45, 46-47, 50, 67, 80-81
	Earth's Changing Surface TR: Reading Strategy Transparency(ies):G11; Guided Reading: 111-114; Transparency(ies): G12, 13; Skills Lab: 117-119; Section Summary: 110; Review and Reinforce: 115; Enrich: 116
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-2021
• crustal deformation	Inside Earth SE/TE: 23-29, 30-31, 32-36, 37, 44-50, 82-85, 86, 91-98, 99-105, 106-107
	Inside Earth TR: Reading Strategy Transparency(ies): F7, 24, 28, 30; Guided Reading: 68-70, 79-81, 121-124, 185-187, 202-206, 211-214; Transparency(ies): F8, 9, 10-12, 14-15, 29, 31-33; Skills Lab: 73-76, 190-192, 217-218; Section Summary: 67, 78, 120, 184, 201, 210; Review and Reinforce: 71, 82, 125, 188, 207, 215; Enrich: 72, 83, 126, 189, 208, 216

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	<p>Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1014, cfp-1015, cfd-1031, cfp-1033; www.SciLinks.org Web Code: scn-1021, scn-1034</p>
ESS.8.8.5 Compare and contrast the different landforms caused by Earth's external forces:	
<ul style="list-style-type: none"> plains 	<p>Earth's Changing Surface SE/TE: 8</p>
	<p>Earth's Changing Surface TR: Transparency(ies): G2, 3</p>
	<p>Earth's Changing Surface TECH: www.SciLinks.org Web Code: scn-0711</p>
<ul style="list-style-type: none"> canyons 	<p>Earth's Changing Surface SE/TE: 118</p>
<ul style="list-style-type: none"> deltas 	<p>Earth's Changing Surface SE/TE: 77, 78</p> <p>Earth's Water SE/TE: 20</p>
<ul style="list-style-type: none"> valleys 	<p>Earth's Changing Surface SE/TE: 78-79, 92-93</p>
<ul style="list-style-type: none"> swamps 	<p>Earth's Water SE/TE: 29</p>
ESS.8.8.6 Research local, regional, and state landforms created by external forces on Earth:	
<ul style="list-style-type: none"> Gulf Coastal Plain 	<p>Earth's Changing Surface SE/TE: 8</p>
<ul style="list-style-type: none"> Arkansas River Valley 	<p>Earth's Water SE/TE: 20-21</p>
<ul style="list-style-type: none"> Mississippi Alluvial Plain, including the delta region 	<p>Earth's Changing Surface SE/TE: 77, 78</p> <p>Earth's Water SE/TE: 172</p>
<ul style="list-style-type: none"> Crowley's Ridge 	N / A
ESS.8.8.7 Use topographic maps to identify surface features of Earth	<p>Earth's Changing Surface SE/TE: 26-30, 31</p>

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	Earth's Changing Surface TR: Reading Strategy Transparency(ies): G7; Guided Reading: 73-75; Transparency(ies): G8, 9; Skills Lab: 78-80; Section Summary: 72; Review and Reinforce: 76; Enrich: 77
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2014
ESS.8.8.8 Demonstrate an understanding of the agents of erosion:	
• gravity	Earth's Changing Surface SE/TE: 66-69, 87
	Earth's Changing Surface TR: Reading Strategy Transparency(ies): G19; Guided Reading: 167-168; Transparency(ies): G20; Skills Lab: 171-172; Section Summary: 166; Review and Reinforce: 169; Enrich: 170
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2031, cfd-2031
• water	Earth's Changing Surface SE/TE: 58, 72-81, 82-83, 86-90, 97-98 Earth's Waters SE/TE: 100-101
	Earth's Changing Surface TR: Reading Strategy Transparency(ies): Guided Reading: 175-178, 188-186; Skills Lab: 181-183; Transparency(ies): G22, 23, 24; Section Summary: 174, 185; Review and Reinforce: 179, 189; Enrich: 180, 190
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-2030, cfd-2033
• ice	Earth's Changing Surface SE/TE: 91-95

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	Earth's Changing Surface TR: Reading Strategy Transparency(ies): G25; Guided Reading: 193-195; Transparency(ies): G26-27; Section Summary: 192; Review and Reinforce: 196; Enrich: 197
	Earth's Changing Surface TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0734
• wind	Earth's Changing Surface SE/TE: 101-103
	Earth's Changing Surface TR: Reading Strategy Transparency(ies): G30; Guided Reading: 206-207; Transparency(ies): G31; Section Summary: 205; Review and Reinforce: 208; Enrich: 209
	Earth's Changing Surface TECH: Student Edition on Audio CD:
• animals, including humans	Earth's Changing Surface SE/TE: 48-54, 55, 56-58

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Earth's Changing Surface
	TR: Reading Strategy Transparency(ies): G17; Guided Reading: 122-125, 132-134; Transparency(ies): G14-16; Consumer Lab: 128- 129; Section Summary: 121, 131; Review and Reinforce: 126, 135; Enrich: 127, 136
	Earth's Changing Surface
	TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2022; www.SciLinks.org Web Code: scn-0723
ESS.8.8.9 Using models of rivers, predict changes when variables, such as load, slope, amount of water, or the composition of a stream bed, are changed through erosion or deposition	Earth's Changing Surface
	SE/TE: 86-90
	Earth's Changing Surface
	TR: Reading Strategy Transparency(ies): Guided Reading: 188-186; Transparency(ies): G24; Section Summary: 185; Review and Reinforce: 189; Enrich: 190
	Earth's Changing Surface
	TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-2033
ESS.8.8.10 Explain how weathering and erosion affect the oceans' salinity	Earth's Waters
	SE/TE: 108-110, 113
	Earth's Waters
	TR: Reading Strategy Transparency(ies): H35 Guided Reading: 218-221
ESS.8.8.11 Investigate careers, scientists, and historical breakthroughs related to external forces that change the Earth	Inside Earth
	SE/TE: x-3, 19-22, 25
	Earth's Waters
	SE/TE: 50-51
ESS.8.8.12 Investigate the types of weathering involved in the breakdown of organic and inorganic components of Earth's surface	Earth's Changing Surface
	SE/TE: 38-45

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	Earth's Changing Surface TR: Reading Strategy Transparency(ies):G11; Guided Reading: 111-114; Transparency(ies): G12, 13; Skills Lab: 117-119; Section Summary: 110; Review and Reinforce: 115; Enrich: 116
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-2021
ESS.8.8.13 Illustrate soil profiles	Earth's Changing Surface SE/TE: 48-54, 55
	Earth's Changing Surface TR: Guided Reading: 122-125; Transparency(ies): G14-16; Consumer Lab: 128-129; Section Summary: 121; Review and Reinforce: 126; Enrich: 127
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2022
ESS.8.8.14 Apply knowledge of soil profiles to local soil samples	Earth's Changing Surface SE/TE: 48-54, 55
	Earth's Changing Surface TR: Guided Reading: 122-125; Transparency(ies): G14-16; Consumer Lab: 128-129; Section Summary: 121; Review and Reinforce: 126; Enrich: 127
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2022
ESS.8.8.15 Investigate the formation of soil types	Inside Earth SE/TE: 102 Earth's Changing Surface SE/TE: 48-54, 55

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Earth's Changing Surface TR: Guided Reading: 122-125; Transparency(ies): G14-16; Consumer Lab: 128-129; Section Summary: 121; Review and Reinforce: 126; Enrich: 127
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2022
ESS.8.8.16 Identify components of soil as inorganic or organic through investigations	Earth's Changing Surface SE/TE: 48-54, 55
	Earth's Changing Surface TR: Guided Reading: 122-125; Transparency(ies): G14-16; Consumer Lab: 128-129; Section Summary: 121; Review and Reinforce: 126; Enrich: 127
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2022
ESS.8.8.17 Identify the basic nutrients needed by plants that are present in soils:	
<ul style="list-style-type: none"> • nitrogen 	Environmental Science SE/TE: 52-53 Earth's Changing Surface SE/TE: 50, 52-54, 57
	Environmental Science TR: Transparency(ies): E17;
<ul style="list-style-type: none"> • phosphorous 	Earth's Changing Surface SE/TE: 50, 52-54
<ul style="list-style-type: none"> • potassium 	Earth's Changing Surface SE/TE: 50, 52-54
ESS.8.8.18 Identify ways plants use organic and inorganic components in the soil	From Bacteria to Plants SE/TE: 140-141 Environmental Science SE/TE: 52-53
	Environmental Science TR: Transparency(ies): E17
ESS.8.8.19 Investigate and analyze the composition of a variety of soils	Earth's Changing Surface SE/TE: 48-54, 55

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Earth's Changing Surface TR: Guided Reading: 122-125; Transparency(ies): G14, 15, 16; Consumer Lab: 128-129; Section Summary: 121; Review and Reinforce: 126; Enrich: 127
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2022
ESS.8.8.20 Conduct investigations on soil permeability	Earth's Changing Surface SE/TE: 55
	Earth's Changing Surface TR: Consumer Lab: 128-129
	Earth's Changing Surface TECH: Lab Activity Video/DVD:
Standard 9: Earth's History - Students shall demonstrate and apply knowledge of Earth's history using appropriate safety procedures, equipment, and technology	
GRADE 5	
ESS.9.5.1 Explain and give examples of how physical evidence from fossils supports the theory that Earth has changed over time	From Bacteria to Plants
	SE/TE: 32
	Cells and Heredity
	SE/TE: 148-153, 155-163
	Inside Earth
SE/TE: 20, 21	
Earth's Changing Surface	
SE/TE: 114-116, 117-121, 122, 123-126, 127-129, 133, 134-145, 146-147	
	Cells and Heredity TR: Reading Strategy Transparency(ies): C41; Guided Reading: 305-306, 313-315; Transparency(ies): C42, 43-45; Skills Lab: 309-310; Section Summary: 304, 312; Review and Reinforce: 307, 316; Enrich: 308, 317

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Earth's Changing Surface
	TR: Reading Strategy Transparency(ies): G35, 39, 42, 46; Guided Reading: 251-253, 260-262, 267-268, 280-282; Transparency(ies): G36-38, 40, 41, 43, 47; Skills Lab: 256-257, 285-286; Section Summary: 250, 259, 266, 279; Review and Reinforce: 254, 263, 269, 283; Enrich: 255, 264, 270, 284
	Cells and Heredity TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-3053; www.SciLinks.org Web Code: scn-0352
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2042, cfd-2043, cfd-2044, cfp-1015
ESS.9.5.2 Analyze fossil record evidence about plants and animals that lived long ago	Cells and Heredity SE/TE: 148-153, 155-163 Inside Earth SE/TE: 20, 21 Earth's Changing Surface SE/TE: 114-116
	Cells and Heredity TR: Reading Strategy Transparency(ies): C41; Guided Reading: 305-306, 313-315; Transparency(ies): C42, 43-45; Skills Lab: 309-310; Section Summary: 304, 312; Review and Reinforce: 307, 316; Enrich: 308, 317
	Cells and Heredity TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cep-3053; www.SciLinks.org Web Code: scn-0352
ESS.9.5.3 Infer the nature of ancient environments based on fossil record evidence	Cells and Heredity SE/TE: 155-163 Environmental Science SE/TE: 162 Earth's Changing Surface SE/TE: 114-116, 130-133

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Cells and Heredity TR: Guided Reading: 313-315; Transparency(ies): C43-45; Section Summary: 312; Review and Reinforce: 316; Enrich: 317</p> <p>Earth's Changing Surface TR: Reading Strategy Transparency(ies): G44; Guided Reading: 273-275; Transparency(ies): G45; Section Summary: 272; Review and Reinforce: 276; Enrich: 277</p>
	<p>Cells and Heredity TECH: Student Edition on Audio CD: PHSchool.com Web Code: cep-3053;</p> <p>Earth's Changing Surface TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0745</p>
GRADE 6	
ESS.9.6.1 Research methods of determining geologic time:	
• fossil records	<p>Earth's Changing Surface SE/TE: 110-116</p>
	<p>Earth's Changing Surface TR: Reading Strategy Transparency(ies): G33; Guided Reading: 243-246; Transparency(ies): G34; Section Summary: 242; Review and Reinforce: 247; Enrich: 248</p>
	<p>Earth's Changing Surface TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0741</p>
• mountain building	<p>Earth's Changing Surface SE/TE: 117-121, 122</p>
	<p>Earth's Changing Surface TR: Reading Strategy Transparency(ies): G35; Guided Reading: 251-253; Transparency(ies): G36-38; Skills Lab: 256-257; Section Summary: 250; Review and Reinforce: 254; Enrich: 255</p>
	<p>Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2042</p>
• rock sequencing	<p>Earth's Changing Surface SE/TE: 117-121, 122</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Earth's Changing Surface TR: Reading Strategy Transparency(ies): G35; Guided Reading: 251-253; Transparency(ies): G36-38; Skills Lab: 256-257; Section Summary: 250; Review and Reinforce: 254; Enrich: 255
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2042
ESS.9.6.2 Model rock layer sequencing based on characteristics of fossils	Earth's Changing Surface SE/TE: 117-121, 122
	Earth's Changing Surface TR: Reading Strategy Transparency(ies): G35; Guided Reading: 251-253; Transparency(ies): G36-38; Skills Lab: 256-257; Section Summary: 250; Review and Reinforce: 254; Enrich: 255
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2042
ESS.9.6.3 Analyze evidence that supports the theory of plate tectonics:	
<ul style="list-style-type: none"> • matching coastlines 	Inside Earth SE/TE: 18-20, 22
	Inside Earth TR: Reading Strategy Transparency(ies): F5; Guided Reading: 62-63; Transparency(ies): F6; Section Summary: 61; Review and Reinforce: 64; Enrich: 65
	Inside Earth TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1013
<ul style="list-style-type: none"> • similar rock types 	Inside Earth SE/TE: 20, 23
	Inside Earth TR: Reading Strategy Transparency(ies): F5; Guided Reading: 62-63; Transparency(ies): F6; Section Summary: 61; Review and Reinforce: 64; Enrich: 65

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Inside Earth TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1013
• fossil record	Inside Earth SE/TE: 20, 23
	Inside Earth TR: Reading Strategy Transparency(ies): F5; Guided Reading: 62-63; Transparency(ies): F6; Section Summary: 61; Review and Reinforce: 64; Enrich: 65
	Inside Earth TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-1013
GRADE 7	
ESS.9.7.1 Analyze charts to infer past atmospheric conditions based on the organisms found in the fossil record	Environmental Science SE/TE: 162 Earth's Changing Surface SE/TE: 130-133, 134-145, 146-147
	Earth's Changing Surface TR: Reading Strategy Transparency(ies): G44, 46; Guided Reading: 273-275, 280-282; Transparency(ies): G45, 47; Skills Lab: 285-286; Section Summary: 272, 279; Review and Reinforce: 276, 283; Enrich: 277, 284
	Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-1015; www.SciLinks.org Web Code: scn-0745
ESS.9.7.2 Demonstrate that Earth has a magnetic field that is detectable at the surface with a compass	Inside Earth SE/TE: 13 Electricity and Magnetism SE/TE: 6-11
	Electricity and Magnetism TR: Reading Strategy Transparency(ies): N1; Guided Reading: Transparency(ies): N2, 3; Section Summary: 46; Review and Reinforce: 50; Enrich: 51

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Electricity and Magnetism TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfg-4011
ESS.9.7.3 Compare and contrast Earth's magnetic field to those of natural or human-made magnets with:	
<ul style="list-style-type: none"> • North and South poles 	Inside Earth SE/TE: 26-27 Electricity and Magnetism SE/TE: 11, 22-27
	Inside Earth TR: Transparency(ies): F8 Electricity and Magnetism TR: Guided Reading: 70-73; Transparency(ies): N8-10; Section Summary: 69; Review and Reinforce: 74; Enrich: 75
	Electricity and Magnetism TECH: Student Edition on Audio CD: PHSchool.com Web Code: cgd-4013
<ul style="list-style-type: none"> • lines of force 	Inside Earth SE/TE: 13 Electricity and Magnetism SE/TE: 6-11, 81
	Electricity and Magnetism TR: Reading Strategy Transparency(ies): N1; Guided Reading: 47-49; Transparency(ies): N2, 3; Section Summary: 46; Review and Reinforce: 50; Enrich: 51
	Electricity and Magnetism TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfg-4011
ESS.9.7.4 Analyze evidence of sea floor spreading:	
<ul style="list-style-type: none"> • magnetic reversal 	Inside Earth SE/TE: 26-27, 30-31
	Inside Earth TR: Transparency(ies): F8; Skills Lab: 73-76
	Inside Earth TECH: Lab Activity Video/DVD:
<ul style="list-style-type: none"> • molten material 	Inside Earth SE/TE: 23-29, 30-31

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	<p>Inside Earth TR: Reading Strategy Transparency(ies): F7; Guided Reading: 68-70; Transparency(ies): F8-9; Skills Lab: 73-76; Section Summary: 67; Review and Reinforce: 71; Enrich: 72</p>
	<p>Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfd-1014</p>
<ul style="list-style-type: none"> drilling samples 	<p>Inside Earth SE/TE: 27</p>
<p>ESS.9.7.5 Research ways in which people have used compasses</p>	<p>Electricity and Magnetism SE/TE: 80-81</p>
<p>GRADE 8</p>	
<p>ESS.9.8.1 Explain processes that have changed Earth's surface that have resulted from sudden events (e.g., earthquakes and volcanoes) and gradual changes (e.g., uplift, erosion, and weathering)</p>	<p>Inside Earth SE/TE: 44-50, 51-57, 58-59, 82-85, 86, 99-105, 106-107, 153, 166</p> <p>Earth's Water SE/TE: 100-101</p> <p>Earth's Changing Surface SE/TE: 39, 66-69, 72-81, 82-83, 86-90, 91-95, 96-100, 101-103</p>
	<p>Inside Earth TR: Reading Strategy Transparency(ies): F16, 24, 30; Guided Reading: 121-124, 129-131, 185-187; Transparency(ies): F14, 15, 17, 25, 26, 31, 32, 33; Skills Lab: 134-136, 190-192, 217-218; Section Summary: 120, 128, 184, 210; Review and Reinforce: 125, 132, 188, 215; Enrich: 126, 133, 189, 216</p> <p>Earth's Changing Surface TR: Reading Strategy Transparency(ies): G19, 21, 25, 28, 30; Guided Reading: 167-168, 175-178, 186-188 193-195, 200-201, 206-207; Transparency(ies): G20, 22, 23, 24, 26, 27, 29, 31; Skills Lab: 171-172, 181-183 Section Summary: 166, 174, 185, 192, 199, 205; Review and Reinforce: 169, 179, 189, 196, 202, 208; Enrich: 170, 180, 190, 197, 203, 209</p>

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	<p>Inside Earth TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-1022, cfd-1031, www.SciLinks.org Web Code: scn-1021</p> <p>Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2031, cfd-2031, cfh-2030, cfh-2030, cfd-2033; www.SciLinks.org Web Code: scn-0734, scn-0735</p>
ESS.9.8.2 Analyze how rock sequences may be disturbed by the following:	
<ul style="list-style-type: none"> erosion 	<p>Inside Earth SE/TE: 153, 166</p> <p>Earth's Water SE/TE: 100-101</p> <p>Earth's Changing Surface SE/TE: 39, 66-69, 72-81, 82-83, 86-90, 91-95, 96-100, 101-103</p>
	<p>Earth's Changing Surface TR: Reading Strategy Transparency(ies): G19, 21, 25, 28, 30; Guided Reading: 167-168, 175-178, 186-188 193-195, 200-201, 206-207; Transparency(ies): G20, 22, 23, 24, 26, 27, 29, 31; Skills Lab: 171-172, 181-183 Section Summary: 166, 174, 185, 192, 199, 205; Review and Reinforce: 169, 179, 189, 196, 202, 208; Enrich: 170, 180, 190, 197, 203, 209</p>
	<p>Earth's Changing Surface TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-2031, cfd-2031, cfh-2030, cfh-2030, cfd-2033; www.SciLinks.org Web Code: scn-0734, scn-0735</p>
<ul style="list-style-type: none"> deposition 	<p>Inside Earth SE/TE: 153</p> <p>Earth's Changing Surface SE/TE: 67, 76-77, 90, 94, 99-100, 103</p>
	<p>Earth's Changing Surface TR: Guided Reading: 167-168; Transparency(ies): G23</p>

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• igneous intrusion	Inside Earth SE/TE: 103, 104, 149
	Earth's Changing Surface SE/TE: 119, 121, 126
• folding	Inside Earth SE/TE: 48-50
	Inside Earth TR: Guided Reading: 121-124; Transparency(ies): F14, 15; Section Summary: 120; Review and Reinforce: 125; Enrich: 126
	Inside Earth TECH: Student Edition on Audio CD www.SciLinks.org Web Code: scn-1021
• faulting	Inside Earth SE/TE: 44-50
	Inside Earth TR: Guided Reading: 121-124; Transparency(ies): F14, 15; Section Summary: 120; Review and Reinforce: 125; Enrich: 126
	Inside Earth TECH: Student Edition on Audio CD www.SciLinks.org Web Code: scn-1021
• uplifting	Inside Earth SE/TE: 50, 104
ESS.9.8.3 Explain how scientists determine the relative ages of fossils found in layers of sedimentary rock:	
• law of superposition	Inside Earth SE/TE: 118, 121, 122
	Inside Earth TR: Reading Strategy Transparency(ies): G35; Guided Reading: 251-253; Transparency(ies): G36-38; Skills Lab: 256-257; Section Summary: 250; Review and Reinforce: 254; Enrich: 255
	Inside Earth TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cfp-2042

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• law of cross-cutting	Inside Earth SE/TE: 117-121, 122
	Inside Earth TR: Reading Strategy Transparency(ies): G35; Guided Reading: 251-253; Transparency(ies): G36-38; Skills Lab: 256-257; Section Summary: 250; Review and Reinforce: 254; Enrich: 255
	Inside Earth TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cfp-2042
ESS.9.8.4 Apply geologic laws of superposition and cross-cutting to determine the relative age of rock in a cross section	Inside Earth SE/TE: 117-121, 122
	Inside Earth TR: Reading Strategy Transparency(ies): G35; Guided Reading: 251-253; Transparency(ies): G36-38; Skills Lab: 256-257; Section Summary: 250; Review and Reinforce: 254; Enrich: 255
	Inside Earth TECH: Student Edition on Audio CD; Lab Activity Video/DVD; PHSchool.com Web Code: cfp-2042
Standard 10: Objects in the Universe - Students shall demonstrate and apply knowledge of objects in the universe using appropriate safety procedures, equipment, and technology	
GRADE 5	
ESS.10.5.1 Compare the physical characteristics of the sun to other stars:	
• size	Astronomy SE/TE: 81, 127, 146
	Astronomy TR: Transparency(ies): J38, 39
	Astronomy TECH: PHSchool.com Web Code: cfd-5042
• color	Astronomy SE/TE: 127
	Astronomy TR: Transparency(ies): J38, 39

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	Astronomy TECH: PHSchool.com Web Code: cfd-5042
• brightness	Astronomy SE/TE: 128-129
ESS.10.5.2 Demonstrate the order of planets and other space objects in our solar system	Astronomy SE/TE: 71, 76-77, 84-91, 94-101, 104-107
	Astronomy TR: Reading Strategy Transparency(ies): J25, 27, 31; Guided Reading: 188-191, 196-199, 207-208; Transparency(ies): J26, 28-30, 32; Design Your Own Lab: 202-204; Section Summary: 187, 195, 206; Review and Reinforce: 192, 200, 209; Enrich: 193, 201, 210
	Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034; www.SciLinks.org Web Code: scn-0633, scn-0635
ESS.10.5.3 Compare the properties of planets in our solar system:	
• size	Astronomy SE/TE: 84-91, 94-101
	Astronomy TR: Reading Strategy Transparency(ies): J25, 27; Guided Reading: 188-191, 196-199; Transparency(ies): J26, 28-30; Design Your Own Lab: 202-204; Section Summary: 187, 195; Review and Reinforce: 192, 200; Enrich: 193, 201
	Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034;
• shape	Astronomy SE/TE: 84-91, 94-101
	TR: Reading Strategy Transparency(ies): J25, 27; Guided Reading: 188-191, 196-199; Transparency(ies): J26, 28-30; Design Your Own Lab: 202-204; Section Summary: 187, 195; Review and Reinforce: 192, 200; Enrich: 193, 201

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	<p>Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034</p>
<ul style="list-style-type: none"> • density 	<p>Astronomy SE/TE: 84-91, 94-101</p>
	<p>Astronomy TR: Reading Strategy Transparency(ies): J25, 27; Guided Reading: 188-191, 196-199; Transparency(ies): J26, 28-30; Design Your Own Lab: 202-204; Section Summary: 187, 195; Review and Reinforce: 192, 200; Enrich: 193, 201</p>
	<p>Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034</p>
<ul style="list-style-type: none"> • atmosphere 	<p>Astronomy SE/TE: 84-91, 94-101</p>
	<p>Astronomy TR: Reading Strategy Transparency(ies): J25, 27; Guided Reading: 188-191, 196-199; Transparency(ies): J26, 28-30; Design Your Own Lab: 202-204; Section Summary: 187, 195; Review and Reinforce: 192, 200; Enrich: 193, 201</p>
	<p>Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034</p>
<ul style="list-style-type: none"> • distance from the sun 	<p>Astronomy SE/TE: 84-91, 94-101</p>
	<p>Astronomy TR: Reading Strategy Transparency(ies): J25, 27; Guided Reading: 188-191, 196-199; Transparency(ies): J26, 28-30; Design Your Own Lab: 202-204; Section Summary: 187, 195; Review and Reinforce: 192, 200; Enrich: 193, 201</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034</p>
<ul style="list-style-type: none"> orbital path 	<p>Astronomy SE/TE: 84-91, 94-101</p>
	<p>Astronomy TR: Reading Strategy Transparency(ies): J25, 27; Guided Reading: 188-191, 196-199; Transparency(ies): J26, 28-30; Design Your Own Lab: 202-204; Section Summary: 187, 195; Review and Reinforce: 192, 200; Enrich: 193, 201</p>
	<p>Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034</p>
<ul style="list-style-type: none"> moons 	<p>Astronomy SE/TE: 84-91, 94-101</p>
	<p>Astronomy TR: Reading Strategy Transparency(ies): J25, 27; Guided Reading: 188-191, 196-199; Transparency(ies): J26, 28-30; Design Your Own Lab: 202-204; Section Summary: 187, 195; Review and Reinforce: 192, 200; Enrich: 193, 201</p>
	<p>Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034</p>
<ul style="list-style-type: none"> surface 	<p>Astronomy SE/TE: 84-91, 94-101</p>
	<p>Astronomy TR: Reading Strategy Transparency(ies): J25, 27; Guided Reading: 188-191, 196-199; Transparency(ies): J26, 28-30; Design Your Own Lab: 202-204; Section Summary: 187, 195; Review and Reinforce: 192, 200; Enrich: 193, 201</p>

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	Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034
• composition	Astronomy SE/TE: 84-91, 94-101
	Astronomy TR: Reading Strategy Transparency(ies): J25, 27; Guided Reading: 188-191, 196-199; Transparency(ies): J26, 28-30; Design Your Own Lab: 202-204; Section Summary: 187, 195; Review and Reinforce: 192, 200; Enrich: 193, 201
	Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfh-5030, ced-5034
ESS 10.5.4 Distinguish between mass and weight	Astronomy SE/TE: 17, 19 Motion, Forces, and Energy SE/TE: 46-47, 50
ESS.10.5.5 Compare the human body's mass to weight on Earth, the moon, and other planets in our solar system	Astronomy SE/TE: 17, 19
ESS.10.5.6 Investigate careers, scientists, and historical breakthroughs related to planets	Astronomy SE/TE: x-3, 16, 72-77, 99, 122
	Astronomy TR: Reading Strategy Transparency(ies): J22; Guided Reading: 713-175; Section Summary: 172; Review and Reinforce: 176; Enrich: 177
	Astronomy TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfb-5000, cfp-5013
GRADE 6	
ESS.10.6.1 Explain how planets seem to wander against the background of the stars	Astronomy SE/TE: 10-11, 117, 126, 156, 186-187

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ESS.10.6.2 Compare the distance of the following:	
• from the sun to Earth (light minutes)	Astronomy SE/TE: 130-131, 133, 134-135
	Astronomy TR: Transparency(ies): J40; Skills Lab: 267-269
	Astronomy TECH: Lab Activity Video/DVD:
• from the next nearest star to Earth (light years)	Astronomy SE/TE: 130-131, 133, 134-135
	Astronomy TR: Transparency(ies): J40; Skills Lab: 267-269
	Astronomy TECH: Lab Activity Video/DVD:
ESS.10.6.3 Describe how astronomers measure distance to stars	Astronomy SE/TE: 130-131, 133, 134-135
	Astronomy TR: Transparency(ies): J40; Skills Lab: 267-269
	Astronomy TECH: Lab Activity Video/DVD:
ESS.10.6.4 Calculate the rate at which we would have to travel to other stars and planets in our solar system using current technology	Astronomy SE/TE: 48-52, 53-57, 85, 92-93, 95
	Astronomy TR: Reading Strategy Transparency(ies): J18, 19; Guided Reading: 120-122, 127-128; Section Summary: 119, 126; Review and Reinforce: 123, 129; Enrich: 124, 130
	Astronomy TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-5022
ESS.10.6.5 Explain the effect of the sun on comets	Astronomy SE/TE: 104-105, 107

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	Astronomy TECH: www.SciLinks.org Web Code: scn-0635
ESS.10.6.6 Compare and contrast comets, meteors, and asteroids by	
• size	Astronomy SE/TE: 104-107
	Astronomy TR: Reading Strategy Transparency(ies): J31; Guided Reading: 207-208; Transparency(ies): J32; Section Summary: 206; Review and Reinforce: 209; Enrich: 210
	Astronomy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0635
• orbits	Astronomy SE/TE: 104-107
	Astronomy TR: Reading Strategy Transparency(ies): J31; Guided Reading: 207-208; Transparency(ies): J32; Section Summary: 206; Review and Reinforce: 209; Enrich: 210
	Astronomy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0635
• nucleus	Astronomy SE/TE: 104-107
	Astronomy TR: Reading Strategy Transparency(ies): J31; Guided Reading: 207-208; Transparency(ies): J32; Section Summary: 206; Review and Reinforce: 209; Enrich: 210
	Astronomy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0635
• mass	Astronomy SE/TE: 104-107

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	Astronomy TR: Reading Strategy Transparency(ies): J31; Guided Reading: 207-208; Transparency(ies): J32; Section Summary: 206; Review and Reinforce: 209; Enrich: 210
	Astronomy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0635
ESS.10.6.7 Model moon phases demonstrating the position of Earth, moon, and sun	Astronomy SE/TE: 20-23, 27
	Astronomy TR: Reading Strategy Transparency(ies): J7; Guided Reading: 63-66; Transparency(ies): J8-11; Skills Lab: 69-70; Section Summary: 62; Review and Reinforce: 67; Enrich: 68
	Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfp-5013
ESS.10.6.8 Compare and contrast solar eclipse and lunar eclipse	Astronomy SE/TE: 23-25, 26
	Astronomy TR: Guided Reading: 63-66 Transparency(ies): J9 Section Summary: 62; Review and Reinforce: 67; Enrich: 68
	Astronomy TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfp-5013
ESS.10.6.9 Investigate careers, scientists, and historical breakthroughs related to the sun and space travel	Astronomy SE/TE: x-3, 48-52, 53-57
	Astronomy TR: Reading Strategy Transparency(ies): J18, 19; Guided Reading: 120-122, 127-128; Section Summary: 119, 126; Review and Reinforce: 123, 129; Enrich: 124, 130
	Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: PHSchool.com Web Code: cfb-5000, cfd-5022; www.SciLinks.org Web Code: scn-0623

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
GRADE 7	
ESS.10.7.1 Identify and model the causes of night and day	Astronomy SE/TE: 7, 12-13
ESS.10.7.2 Compare and contrast Earth's day to those of other planets in our solar system	Astronomy SE/TE: 7-9, 85, 87, 95
ESS.10.7.3 Identify and model the cause of planetary years	Astronomy SE/TE: 85, 87, 95
ESS.10.7.4 Compare and contrast Earth's year to those of other planets in our solar system	Astronomy SE/TE: 85, 87, 95
ESS.10.7.5 Identify and model the causes of seasons	Weather and Climate SE/TE: 114-115 Astronomy SE/TE: 10-13
	Weather and Climate TR: Transparency(ies): I42 Astronomy TR: Transparency(ies): J2
	Astronomy TECH: PHSchool.com Web Code: cfp-5012
ESS.10.7.6 Investigate careers, scientists, and historical breakthroughs related to rotations and revolutions of bodies in space	Astronomy SE/TE: x-3, 122
	Astronomy TECH: PHSchool.com Web Code: cfb-5000
GRADE 8	
ESS.10.8.1 Summarize the effects of gravity on bodies in space	Motions, Forces, and Energy SE/TE: 46-47, 50 Astronomy SE/TE: 16-19
	Astronomy TR: Reading Strategy Transparency(ies): J4; Guided Reading: 57-58; Transparency(ies): J5, 6; Section Summary: 56; Review and Reinforce: 59; Enrich: 60

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Astronomy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0612
ESS.10.8.2 Identify variables that affect the amount of gravitational force between two objects:	
<ul style="list-style-type: none"> • mass of the objects 	Motions, Forces, and Energy SE/TE: 47, 50 Astronomy SE/TE: 17, 19
<ul style="list-style-type: none"> • distance between the objects 	Motions, Forces, and Energy SE/TE: 46-47, 50 Astronomy SE/TE: 17, 19
ESS.10.8.3 Relate the effects of the moon's gravitational force on Earth's ocean tides	Earth's Waters SE/TE: 102-107 Astronomy SE/TE: 26-27
	Earth's Waters TR: Reading Strategy Transparency(ies): H33; Guided Reading: 201-203; Transparency(ies): H34; Section Summary: 200; Review and Reinforce: 204; Enrich: 205
	Earth's Waters TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-3032 Astronomy TECH: PHSchool.com Web Code: cfp-5013
ESS.10.8.4 Identify the causes of the following:	
<ul style="list-style-type: none"> • high tides 	Earth's Waters SE/TE: 102-107
	Earth's Waters TR: Reading Strategy Transparency(ies): H33; Guided Reading: 201-203; Transparency(ies): H34; Section Summary: 200; Review and Reinforce: 204; Enrich: 205
	Earth's Waters TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-3032

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	Astronomy
	TECH: PHSchool.com Web Code: cfp-5013
• low tides	Earth's Waters SE/TE: 102-107
	Earth's Waters TR: Reading Strategy Transparency(ies): H33; Guided Reading: 201-203; Transparency(ies): H34; Section Summary: 200; Review and Reinforce: 204; Enrich: 205
	Earth's Waters TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-3032
	Astronomy
	TECH: PHSchool.com Web Code: cfp-5013
• spring tides	Earth's Waters SE/TE: 102-107
	Astronomy
	SE/TE: 27
	Earth's Waters TR: Reading Strategy Transparency(ies): H33; Guided Reading: 201-203; Transparency(ies): H34; Section Summary: 200; Review and Reinforce: 204; Enrich: 205
	Earth's Waters TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-3032
	Astronomy
	TECH: PHSchool.com Web Code: cfp-5013
• neap tides	Earth's Waters SE/TE: 102-107
	Astronomy
	SE/TE: 27
	Earth's Waters TR: Reading Strategy Transparency(ies): H33; Guided Reading: 201-203; Transparency(ies): H34; Section Summary: 200; Review and Reinforce: 204; Enrich: 205

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
	<p>Earth's Waters TECH: Student Edition on Audio CD: PHSchool.com Web Code: cfd-3032</p> <p>Astronomy TECH: PHSchool.com Web Code: cfp-5013</p>
ESS.10.8.5 Define the terms galaxy and universe	<p>Astronomy SE/TE: 144-147</p>
	<p>Astronomy TR: Guided Reading: 279-281; Transparency(ies): J44; Section Summary: 278; Review and Reinforce: 282; Enrich: 283</p>
	<p>Astronomy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0644</p>
ESS.10.8.6 Illustrate the appearance of galaxies as seen through a telescope:	
• clarity	<p>Astronomy SE/TE: 118-124, 125, 144-145</p>
	<p>Astronomy TR: Guided Reading: 251-253; Transparency(ies): J35, 36; Design Your Own Lab: 256-257; Section Summary: 250; Review and Reinforce: 254; Enrich: 255</p>
	<p>Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0641</p>
• shape	<p>Astronomy SE/TE: 118-124, 125, 144-145</p>
	<p>Astronomy TR: Guided Reading: 251-253; Transparency(ies): J35, 36; Design Your Own Lab: 256-257; Section Summary: 250; Review and Reinforce: 254; Enrich: 255</p>
	<p>Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0641</p>

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ARKANSAS SCIENCE CURRICULUM FRAMEWORK	PAGE (S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
ESS.10.8.7 Compare and contrast the Milky Way Galaxy to other galaxies	Astronomy SE/TE: 144-145, 147
	Astronomy TR: Guided Reading: 279-281; Transparency(ies): J44; Section Summary: 278; Review and Reinforce: 282; Enrich: 283
	Astronomy TECH: Student Edition on Audio CD: www.SciLinks.org Web Code: scn-0644
ESS.10.8.8 Illustrate the position of our solar system within the Milky Way Galaxy	Astronomy SE/TE: 141, 145, 147
	Astronomy TR: Transparency(ies): J44
ESS.10.8.9 Investigate careers, scientists, and historical breakthroughs related to gravity, galaxies, and the universe	Astronomy SE/TE: 118-124, 132-133, 143, 149, 150
	Astronomy TR: Guided Reading: 251-253; Transparency(ies): J35, 26; Technology Lab: 256-257; Section Summary: 250; Review and Reinforce: 254; Enrich: 255
	Astronomy TECH: Student Edition on Audio CD: Lab Activity Video/DVD: www.SciLinks.org Web Code: scn-0641