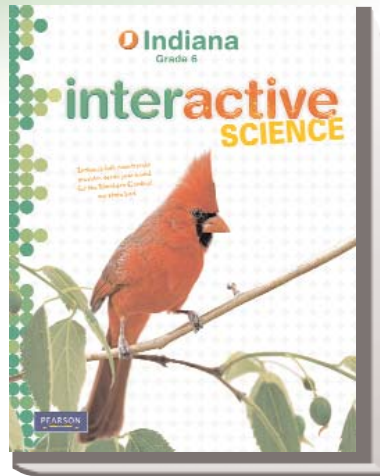


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C O R R E L A T E D T O

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INDIANA ACADEMIC STANDARDS	SE Lessons (chapter & lesson numbers)	SE, TE, TR, TECH (page numbers)
Grade 6		
Process Standards		
The Nature of Science - Students gain scientific knowledge by observing the natural and constructed world, performing and evaluating investigations and communicating their findings. These principles should guide student work and be integrated into the curriculum along with the content standards on a daily basis.		
* Make predictions and develop testable questions based on research and prior knowledge.	SE: Chapter 1 Lesson 1	SE: 4-9, My Science Online, 5, Unlock The Big Question, 4, My Planet Diary, Careers, 4, Lab Zone, Exploring Science., 4 , Practicing Science Skills., 9, Exploring Science, 4, Practicing Science Skills, 9, Vocabulary, 5, Assess Your Understanding, 9, Figure, 5, 6, 7, Apply it, 8, Do the Math, 7, Virtual Lab, 8, Interactive Art, 9 TE: Differentiated Instruction, 7, 9, Chapter at a Glance, My Science Online, Engage, 4, Explore, 4, Explain, 5, Elaborate, 6, Evaluate, 7, ELL Support, 5, 21 st Century Learning, 5, Response to Intervention, 9, Teacher Demo, 8, Assess Your Understanding, 9, Lab Zone, 9A, Key Concept Summaries, 9B, Review and Reinforce, 9C, Enrich, 9D, Lesson Quiz, 9E, Teach with Visuals, 9 Teach Key Concept, 5, Address Misconceptions, 6 TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab

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<p>* Plan and carry out investigations as a class, in small groups or independently often over a period of several class lessons.</p>	<p>SE: Chapter 2 Lesson 1, 2, 3</p>	<p>SE: 38-47, 48-55, 56-61, Unlock The Big Question, 38, 48, 56, My Planet Diary, Fun Facts, 38, Blog, 48, Science Stats, 56, Lab Zone, Taking Measurements, 38, Measurement Systems, 39, Measuring Volume in Metric, 47, Making Models, 48, Understanding Significant Figures, 51, Math Tools in Science, 55, Picturing Information., 56, Making Graphs, 57, Graphs and Predictions., 61, My Science Online, 41, 49, 53, 57, 59, Vocabulary, 41, 49, 53, 57, 59, Assess Your Understanding, 38, 39, 47, 56, Figure, 40, 41, 43, 46, 58, 59, 60, Apply it, 8, 14, 21, 49, 55, 61, Do the Math, 44, 52, Virtual Lab, 39, TE: Differentiated Instruction, 41, 43, 45, 47, 51, 53, 55, 59, My Science Online, Engage, 38, 48, 56, Explore, 38. 48, 56, Explain, 39, 40, 41, 42, 44, 45, 46, 47, 49, 50, 51, 52, 54, 53, 57, 58, Elaborate, 41, 43, 44, 45, 47, 49, 50, 51, 52, 55, 57, Evaluate, 47, 51, 55, 57, Support All Readers, 38, 48, 56, ELL Support, 39, 49, 57, 21st Century Learning, 45, 57, Response to Intervention, 39, 47, 51, 55, 57, 59, Teacher Demo, 41, 43, 50, Address Misconceptions, Apply it, , Build Inquiry, 47, Assess Your Understanding, Teach with Visuals, 40, 42, 46, 53, 58, Teach Key Concept, 40, 49, 52, 57, Make Analogies, 39, Do the Math, 44, 49, 52, Professional Development Note, 50, Apply it, 59, Lab Zone, 47A, 55A, 59A, Key Concept Summaries, 47B, 55B, 59B, Review and Reinforce, 47C, 55C, 59C, Enrich, 47D, 55D, 59D, Lesson Quiz, 4748E, 55E, 59E</p>

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		<p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>* Collect quantitative data with appropriate tools or technologies and use appropriate units to label numerical data.</p>	<p>SE: Chapter 2 Lesson 1, 2, 3</p>	<p>SE: 38-47, 48-55, 56-61, Unlock The Big Question, 38, 48, 56, My Planet Diary, Fun Facts, 38, Blog, 48, Science Stats, 56, Lab Zone, Taking Measurements, 38, Measurement Systems, 39, Measuring Volume in Metric, 47, Making Models, 48, Understanding Significant Figures, 51, Math Tools in Science, 55, Picturing Information., 56, Making Graphs, 57, Graphs and Predictions, 61, My Science Online, 41, 49, 53, 57, 59, Vocabulary, 41, 49, 53, 57, 59, Assess Your Understanding, 38, 39, 47, 56, Figure, 40, 41, 43, 46, 58, 59, 60, Apply it, 8, 14, 21, 49, 55, 61, Do the Math, 44, 52, Virtual Lab, 39, TE: Differentiated Instruction, 41, 43, 45, 47, 51, 53, 55, 59, My Science Online, Engage, 38, 48, 56, Explore, 38. 48, 56, Explain, 39, 40, 41, 42, 44, 45, 46, 47, 49, 50, 51, 52, 54, 53, 57, 58, Elaborate, 41, 43, 44, 45, 47, 49, 50, 51, 52, 55, 57, Evaluate, 47, 51, 55, 57, Support All Readers, 38, 48, 56, ELL Support, 39, 49, 57, 21st Century Learning, 45, 57, Response to Intervention, 39, 47, 51, 55, 57, 59, Teacher Demo, 41, 43, 50, Address Misconceptions, Apply it, , Build Inquiry, 47, Assess Your Understanding, Teach with Visuals, 40, 42, 46, 53, 58, Teach Key Concept, 40, 49, 52, 57, Make Analogies, 39, Do the Math, 44, 49, 52, Professional Development Note, 50, Apply it, 59, Lab Zone, 47A, 55A, 59A, Key Concept Summaries, 47B, 55B, 59B, Review and Reinforce, 47C, 55C, 59C, Enrich, 47D, 55D, 59D, Lesson Quiz, 4748E, 55E, 59E</p>

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		<p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
<p>* Incorporate variables that can be changed, measured or controlled.</p>	<p>SE: Chapter 1 Lesson 3</p>	<p>SE: 21-22, Apply it, 21, Figure, 22 TE: Differentiated Instruction, 21, Chapter at a Glance, My Science Online, Engage, Explore, Explain, 21, 22, Elaborate, 21, 22, Teacher Demo, 22, Apply it, 21 TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>* Use the principles of accuracy and precision when making measurement.</p>	<p>SE: Chapter 2 Lesson 1, 2</p>	<p>SE: 38-47, 48-55, Unlock The Big Question, 38, 48, My Planet Diary, Fun Facts, 38, Blog, 48, Lab Zone, Taking Measurements, 38, Measurement Systems, 39, Measuring Volume in Metric, 47, Making Models, 48, Understanding Significant Figures, 51, Math Tools in Science, 55, My Science Online, 41, 49, 53, Vocabulary, 41, 49, 53, Assess Your Understanding, 38, 39, 47, Figure, 40, 41, 43, 46, Apply it, 8, 14, 21, 49, 55, Do the Math, 44, 52, Virtual Lab, 39</p> <p>TE: Differentiated Instruction, 41, 43, 45, 47, 51, 53, 55, My Science Online, Engage, 38, 48, Explore, 38. 48, Explain, 39, 40, 41, 42, 44, 45, 46, 47, 49, 50, 51, 52, 54, 53, Elaborate, 41, 43, 44, 45, 47, 49, 50, 51, 52, 55, Evaluate, 47, 51, 55, 57, Support All Readers, 38, 48, ELL Support, 39, 49, 21st Century Learning, 45, Response to Intervention, 39, 47, 51, 55, Teacher Demo, 41, 43, 50, Build Inquiry, 47, Assess Your Understanding, Teach with Visuals, 40, 42, 46, 53, Teach Key Concept, 40, 49, 52, Make Analogies, 39, Do the Math, 44, 49, 52, Professional Development Note, 50, Lab Zone, 47A, 55A, Key Concept Summaries, 47B, 55B, Review and Reinforce, 47C, 55C, Enrich, 47D, 55D, Lesson Quiz, 4748E, 55E,</p>
		<p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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* Test predictions with multiple trials.	SE: Chapter 1 Lesson 3	SE/TE: 23, 26, Do the Math, 23 TE: Differentiated Instruction, 23, 25, Explain, 23, Elaborate, 23, 25, Address Misconceptions, 23, Teach With Visuals, 24, Lead Discussion, 24, 21 st Century, 25, Response to Intervention, 26, Answer the Big Question, 26 TR: Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab

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<p>* Keep accurate records in a notebook during investigations.</p>	<p>SE: Chapter 1 Lesson 3</p>	<p>SE: 18-27, My Science Online, 19, 21, Unlock The Big Question, 18, Explore the Big Question, 26, Answer the Big Question, 26, My Planet Diary, 18, Lab Zone, Doing Science Is Asking Questions., 18, Making a Hypothesis., 20, Changing Pitch, 26, Theory or Not?, 27, Vocabulary, 19, Assess Your Understanding, 20, 26, 27, Figure, 19, 22, 25, 27, Apply it, 21, Do the Math, 23, Virtual Lab, 24, Interactive Art, 26</p> <p>TE: Differentiated Instruction, 21, 23, 25, Engage, 18, Explore, 18, Support all Readers, 18, ELL Support, 19, Explain, 19, 21, 23, Elaborate, 19, 21, 23, 25, Address Misconceptions, 23, Teach With Visuals, 24, Lead Discussion, 24, 21st Century, 19, 25, Response to Intervention, 20, 26, Professional Development Note, 20, Answer the Big Question, 26, Teach Key Concept, 21, Apply it, 21</p> <p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>* Analyze data, using appropriate mathematical manipulation as required, and use it to identify patterns and make inferences based on these patterns.</p>	<p>SE: Chapter 1 Lesson 3</p>	<p>SE: 18-27, My Science Online, 19, 21, Unlock The Big Question, 18, Explore the Big Question, 26, Answer the Big Question, 26, My Planet Diary, 18, Lab Zone, Doing Science Is Asking Questions., 18, Making a Hypothesis., 20, Changing Pitch, 26, Theory or Not?, 27, Vocabulary, 19, Assess Your Understanding, 20, 26, 27, Figure, 19, 22, 25, 27, Apply it, 21, Do the Math, 23, Virtual Lab, 24, Interactive Art, 26</p> <p>TE: Differentiated Instruction, 21, 23, 25, Engage, 18, Explore, 18, Support all Readers, 18, ELL Support, 19, Explain, 19, 21, 23, Elaborate, 19, 21, 23, 25, Address Misconceptions, 23, Teach With Visuals, 24, Lead Discussion, 24, 21st Century, 19, 25, Response to Intervention, 20, 26, Professional Development Note, 20, Answer the Big Question, 26, Teach Key Concept, 21, Apply it, 21</p> <p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>* Evaluate possible causes for differing results (valid data).</p>	<p>SE: Chapter 1 Lesson 3</p>	<p>SE: 18-27, My Science Online, 19, 21, Unlock The Big Question, 18, Explore the Big Question, 26, Answer the Big Question, 26, My Planet Diary, 18, Lab Zone, Doing Science Is Asking Questions., 18, Making a Hypothesis., 20, Changing Pitch, 26, Theory or Not?, 27, Vocabulary, 19, Assess Your Understanding, 20, 26, 27, Figure, 19, 22, 25, 27, Apply it, 21, Do the Math, 23, Virtual Lab, 24, Interactive Art, 26</p> <p>TE: Differentiated Instruction, 21, 23, 25, Engage, 18, Explore, 18, Support all Readers, 18, ELL Support, 19, Explain, 19, 21, 23, Elaborate, 19, 21, 23, 25, Address Misconceptions, 23, Teach With Visuals, 24, Lead Discussion, 24, 21st Century, 19, 25, Response to Intervention, 20, 26, Professional Development Note, 20, Answer the Big Question, 26, Teach Key Concept, 21, Apply it, 21</p> <p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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* Compare the results of an experiment with the prediction.	SE: Chapter 1 Lesson 3	<p>SE: 18-27, My Science Online, 19, 21, Unlock The Big Question, 18, Explore the Big Question, 26, Answer the Big Question, 26, My Planet Diary, 18, Lab Zone, Doing Science Is Asking Questions., 18, Making a Hypothesis., 20, Changing Pitch, 26, Theory or Not?, 27, Vocabulary, 19, Assess Your Understanding, 20, 26, 27, Figure, 19, 22, 25, 27, Apply it, 21, Do the Math, 23, Virtual Lab, 24, Interactive Art, 26</p> <p>TE: Differentiated Instruction, 21, 23, 25, Engage, 18, Explore, 18, Support all Readers, 18, ELL Support, 19, Explain, 19, 21, 23, Elaborate, 19, 21, 23, 25, Address Misconceptions, 23, Teach With Visuals, 24, Lead Discussion, 24, 21st Century, 19, 25, Response to Intervention, 20, 26, Professional Development Note, 20, Answer the Big Question, 26, Teach Key Concept, 21, Apply it, 21</p> <p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>* Communicate findings using graphs, charts, maps and models through oral and written reports.</p>	<p>SE: Chapter 1 Lesson 3</p>	<p>SE: 18-27, My Science Online, 19, 21, Unlock The Big Question, 18, Explore the Big Question, 26, Answer the Big Question, 26, My Planet Diary, 18, Lab Zone, Doing Science Is Asking Questions., 18, Making a Hypothesis., 20, Changing Pitch, 26, Theory or Not?, 27, Vocabulary, 19, Assess Your Understanding, 20, 26, 27, Figure, 19, 22, 25, 27, Apply it, 21, Do the Math, 23, Virtual Lab, 24, Interactive Art, 26</p> <p>TE: Differentiated Instruction, 21, 23, 25, Engage, 18, Explore, 18, Support all Readers, 18, ELL Support, 19, Explain, 19, 21, 23, Elaborate, 19, 21, 23, 25, Address Misconceptions, 23, Teach With Visuals, 24, Lead Discussion, 24, 21st Century, 19, 25, Response to Intervention, 20, 26, Professional Development Note, 20, Answer the Big Question, 26, Teach Key Concept, 21, Apply it, 21</p> <p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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The Design Process: As citizens of the constructed world, students will participate in the design process. Students will learn to use materials and tools safely and employ the basic principles of the engineering design process in order to find solutions to problems.		
* Identify a need or problem to be solved.	SE: Chapter 3 Lesson 4 Chapter 7 Lesson 6 Chapter 8 Lesson 4 Chapter 9 Lesson 4	SE: 104-113, Unlock The Big Question, 104, Explore the Big Question, 112, Answer the Big Question, 113, My Planet Diary, Blog, 104, Lab Zone, Is a New Substance Formed?, 104, What is a Physical Change, 106, Demonstrating Tarnishing, 109, Where was the Energy?, 113, My Science Online, 105, 107, 111, Vocabulary, 105, Assess Your Understanding, 106, Apply it, 107, Do the Math, 111, Interactive Art, 109, 112, Science Matters 118, 268, 307, 348, Appendix A TE: Differentiated Instruction, 107, 109, 113, Engage, 104, Explore, 104, Explain, 105, 106, 107, 108, Elaborate, 106, 107, 109, 110, Evaluate, 106, 109, 113, Support All Readers, 104, ELL Support, 105, 21 st Century Learning, 105, Response to Intervention, 106, 109, 113, Teacher Demo, 106, 109, Professional Development Note, 106, Address Misconceptions, 108, Apply it, 107, Teach with Visuals, 108, Teach Key Concept, 105, 107, Lab Zone, 113A, Assess Your Understanding, 113B, Key Concept Summaries, 113C, Review and Reinforce, 113D, Enrich, 113E, Lesson Quiz, 113F

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, Is a New Substance Formed?, 26, What is a Physical Change, 27, Demonstrating Tarnishing, 28, Where was the Energy?, 29, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
	<p>SE: Chapter 7 Lesson 6</p>	<p>SE: 258-263, Unlock The Big Question, 258, My Planet Diary, Blog, 258, Lab Zone, Collecting Micrometeorites, 258, Changing Orbits, 263, My Science Online, 259, Vocabulary, 259, Assess Your Understanding, 263, Figure, 259, 261, Apply it, 262, Virtual Lab, 260</p> <p>TE: Differentiated Instruction, 261, 263, Engage, 258, Explore, 258, Explain, 259, 260, 262, 263, Elaborate, 263, Evaluate, 263, Support All Readers, 258, ELL Support, 259, 21st Century Learning, 259, 262, Response to Intervention, 263, Teach with Visuals, 259, 261, Teach Key Concept, 259, Lab Zone, 263A, Assess Your Understanding, 263B, Key Concept Summaries, 263C, Review and Reinforce, 263D, Enrich, 263E, Lesson Quiz, 263F</p>

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, Collecting Micrometeorites, 102, Changing Orbits, 103, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
	<p>SE: Chapter 8 Lesson 4</p>	<p>SE: 298-301, Unlock The Big Question, 298, My Planet Diary, Misconceptions, 298, Lab Zone, How Communities Change, 298, Primary and Secondary, 301, My Science Online, 299, Vocabulary, 299, Assess Your Understanding, 301, Apply it, 300, Interactive Art, Art in Motion, 299, 300</p> <p>TE: Differentiated Instruction, 301, Engage, 298, Explore, 298, Explain, 299, 300, Elaborate, 301, Evaluate, 301, Support All Readers, 298, ELL Support, 299, Response to Intervention, 301, Apply it, 301, Teach Key Concept, 299, 300, Lab Zone, 301A, Assess Your Understanding, 301B, Key Concept Summaries, 301C, Review and Reinforce, 301D, Enrich, 301E, Lesson Quiz, 301F</p>

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	<p>SE: Chapter 9 Lesson 4</p>	<p>SE: 334-343, Unlock The Big Question, 334, My Planet Diary, Field Trip, 334, Lab Zone, How Much Rain Is That?, 334, Inferring Forest Climates, 343, Assess Your Understanding, 343, My Science Online, 335, Vocabulary, 335, Figure, 336, 337, 338, 339, 340, 341, Apply it, 343, Do the Math, 342, Appendix A, 350-351</p> <p>TE: Differentiated Instruction, 339, 341, 343, Engage, 334, Explore, 334, Explain, 335, 336, 338, 340, 342, Elaborate, 339, 341, 342, Evaluate, 343, Support All Readers, 334, ELL Support, 335, 21st Century Learning, 335, 337, 341, Response to Intervention, 343, Apply it, 343, Build Inquiry, 339, Teach with Visuals, 337, 338, 340, Do the Math, 342, Teach Key Concept, 335, Address Misconceptions, 335, Lab Zone, 343A, Assess Your Understanding, 343B, Key Concept Summaries, 343 C, Review and Reinforce, 343D, Enrich, 343E, Lesson Quiz, 343F</p>

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* Brainstorm potential solutions.	SE: Chapter 3 Lesson 4 Chapter 7 Lesson 6 Chapter 8 Lesson 4 Chapter 9 Lesson 4	SE: 104-113, Unlock The Big Question, 104, Explore the Big Question, 112, Answer the Big Question, 113, My Planet Diary, Blog, 104, Lab Zone, Is a New Substance Formed?, 104, What is a Physical Change, 106, Demonstrating Tarnishing, 109, Where was the Energy?, 113, My Science Online, 105, 107, 111, Vocabulary, 105, Assess Your Understanding, 106, Apply it, 107, Do the Math, 111, Interactive Art, 109, 112, Science Matters 118, 268, 307, 348, Appendix A TE: Differentiated Instruction, 107, 109, 113, Engage, 104, Explore, 104, Explain, 105, 106, 107, 108, Elaborate, 106, 107, 109, 110, Evaluate, 106, 109, 113, Support All Readers, 104, ELL Support, 105, 21 st Century Learning, 105, Response to Intervention, 106, 109, 113, Teacher Demo, 106, 109, Professional Development Note, 106, Address Misconceptions, 108, Apply it, 107, Teach with Visuals, 108, Teach Key Concept, 105, 107, Lab Zone, 113A, Assess Your Understanding, 113B, Key Concept Summaries, 113C, Review and Reinforce, 113D, Enrich, 113E, Lesson Quiz, 113F

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<p>* Document the design throughout the entire design process so that it can be replicated in a portfolio/notebook with drawings including labels.</p>	<p>SE: Chapter 3 Lesson 4</p>	<p>SE: 104-113, Unlock The Big Question, 104, Explore the Big Question, 112, Answer the Big Question, 113, My Planet Diary, Blog, 104, Lab Zone, Is a New Substance Formed?, 104, What is a Physical Change, 106, Demonstrating Tarnishing, 109, Where was the Energy?, 113, My Science Online, 105, 107, 111, Vocabulary, 105, Assess Your Understanding, 106, Apply it, 107, Do the Math, 111, Interactive Art, 109, 112, Science Matters 118, 268, 307, 348 TE: Differentiated Instruction, 107, 109, 113, Engage, 104, Explore, 104, Explain, 105, 106, 107, 108, Elaborate, 106, 107, 109, 110, Evaluate, 106, 109, 113, Support All Readers, 104, ELL Support, 105, 21st Century Learning, 105, Response to Intervention, 106, 109, 113, Teacher Demo, 106, 109, Professional Development Note, 106, Address Misconceptions, 108, Apply it, 107, Teach with Visuals, 108, Teach Key Concept, 105, 107, Lab Zone, 113A, Assess Your Understanding, 113B, Key Concept Summaries, 113C, Review and Reinforce, 113D, Enrich, 113E, Lesson Quiz, 113F</p>

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, Collecting Micrometeorites, 102, Changing Orbits, 103, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
	<p>SE: Chapter 8 Lesson 4</p>	<p>SE: 298-301, Unlock The Big Question, 298, My Planet Diary, Misconceptions, 298, Lab Zone, How Communities Change, 298, Primary and Secondary, 301, My Science Online, 299, Vocabulary, 299, Assess Your Understanding, 301, Apply it, 300, Interactive Art, Art in Motion, 299, 300</p> <p>TE: Differentiated Instruction, 301, Engage, 298, Explore, 298, Explain, 299, 300, Elaborate, 301, Evaluate, 301, Support All Readers, 298, ELL Support, 299, Response to Intervention, 301, Apply it, 301, Teach Key Concept, 299, 300, Lab Zone, 301A, Assess Your Understanding, 301B, Key Concept Summaries, 301C, Review and Reinforce, 301D, Enrich, 301E, Lesson Quiz, 301F</p>

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	<p>SE: Chapter 9 Lesson 4</p>	<p>SE: 334-343, Unlock The Big Question, 334, My Planet Diary, Field Trip, 334, Lab Zone, How Much Rain Is That?, 334, Inferring Forest Climates, 343, Assess Your Understanding, 343, My Science Online, 335, Vocabulary, 335, Figure, 336, 337, 338, 339, 340, 341, Apply it, 343, Do the Math, 342, Appendix A, 350-351</p> <p>TE: Differentiated Instruction, 339, 341, 343, Engage, 334, Explore, 334, Explain, 335, 336, 338, 340, 342, Elaborate, 339, 341, 342, Evaluate, 343, Support All Readers, 334, ELL Support, 335, 21st Century Learning, 335, 337, 341, Response to Intervention, 343, Apply it, 343, Build Inquiry, 339, Teach with Visuals, 337, 338, 340, Do the Math, 342, Teach Key Concept, 335, Address Misconceptions, 335, Lab Zone, 343A, Assess Your Understanding, 343B, Key Concept Summaries, 343 C, Review and Reinforce, 343D, Enrich, 343E, Lesson Quiz, 343F</p>

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<p>* Test and evaluate how well the solution meets the goal.</p>	<p>SE: Chapter 3 Lesson 4</p>	<p>SE: 104-113, Unlock The Big Question, 104, Explore the Big Question, 112, Answer the Big Question, 113, My Planet Diary, Blog, 104, Lab Zone, Is a New Substance Formed?, 104, What is a Physical Change, 106, Demonstrating Tarnishing, 109, Where was the Energy?, 113, My Science Online, 105, 107, 111, Vocabulary, 105, Assess Your Understanding, 106, Apply it, 107, Do the Math, 111, Interactive Art, 109, 112, Science Matters 118, 268, 307, 348 TE: Differentiated Instruction, 107, 109, 113, Engage, 104, Explore, 104, Explain, 105, 106, 107, 108, Elaborate, 106, 107, 109, 110, Evaluate, 106, 109, 113, Support All Readers, 104, ELL Support, 105, 21st Century Learning, 105, Response to Intervention, 106, 109, 113, Teacher Demo, 106, 109, Professional Development Note, 106, Address Misconceptions, 108, Apply it, 107, Teach with Visuals, 108, Teach Key Concept, 105, 107, Lab Zone, 113A, Assess Your Understanding, 113B, Key Concept Summaries, 113C, Review and Reinforce, 113D, Enrich, 113E, Lesson Quiz, 113F</p>

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* Evaluate and test the design using measurement.	SE: Chapter 1 Lesson 3	<p>SE: 18-27, My Science Online, 19, 21, Unlock The Big Question, 18, Explore the Big Question, 26, Answer the Big Question, 26, My Planet Diary, 18, Lab Zone, Doing Science Is Asking Questions., 18, Making a Hypothesis., 20, Changing Pitch, 26, Theory or Not?, 27, Vocabulary, 19, Assess Your Understanding, 20, 26, 27, Figure, 19, 22, 25, 27, Apply it, 21, Do the Math, 23, Virtual Lab, 24, Interactive Art, 26</p> <p>TE: Differentiated Instruction, 21, 23, 25, Engage, 18, Explore, 18, Support all Readers, 18, ELL Support, 19, Explain, 19, 21, 23, Elaborate, 19, 21, 23, 25, Address Misconceptions, 23, Teach With Visuals, 24, Lead Discussion, 24, 21st Century, 19, 25, Response to Intervention, 20, 26, Professional Development Note, 20, Answer the Big Question, 26, Teach Key Concept, 21, Apply it, 21</p> <p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>* Present evidence using mathematical representations (graphs, data tables).</p>	<p>SE: Chapter 2 Lesson 3</p>	<p>SE: Science Matters 118, 268, 307, Appendix A, 350-351 TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>* Communicate the solution including evidence using mathematical representations (graphs, data tables), drawings or prototypes.</p>	<p>SE: Chapter 2 Lesson 3</p>	<p>SE: Planet Diary, Science Stats, 56, Lab Zone, Picturing Information., 56, Making Graphs, 57, Graphs and Predictions., 61, My Science Online, 57, 59, Vocabulary, 57, 59, Assess Your Understanding, 56, Figure, 58, 59, 60, Apply it, 61, Science Matters 118, 268, 307, Appendix A</p> <p>TE: Differentiated Instruction, 59, My Science Online, Engage, 56, Explore, 56, Explain, 57, 58, Elaborate, 57, Evaluate, 57, Support All Readers, 56, ELL Support, 57, 21st Century Learning, 57, Response to Intervention, 57, 59, Assess Your Understanding, Teach with Visuals, 58, Teach Key Concept, 57, Apply it, 59, Lab Zone, 59A, Key Concept Summaries, 59B, Review and Reinforce, 59C, Enrich, 59D, Lesson Quiz, 59E</p>

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, Collecting Micrometeorites, 102, Changing Orbits, 103, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
	<p>SE: Chapter 8 Lesson 4</p>	<p>SE: 298-301, Unlock The Big Question, 298, My Planet Diary, Misconceptions, 298, Lab Zone, How Communities Change, 298, Primary and Secondary, 301, My Science Online, 299, Vocabulary, 299, Assess Your Understanding, 301, Apply it, 300, Interactive Art, Art in Motion, 299, 300</p> <p>TE: Differentiated Instruction, 301, Engage, 298, Explore, 298, Explain, 299, 300, Elaborate, 301, Evaluate, 301, Support All Readers, 298, ELL Support, 299, Response to Intervention, 301, Apply it, 301, Teach Key Concept, 299, 300, Lab Zone, 301A, Assess Your Understanding, 301B, Key Concept Summaries, 301C, Review and Reinforce, 301D, Enrich, 301E, Lesson Quiz, 301F</p>

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, How Communities Change, 30, Primary and Secondary, 31, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<ul style="list-style-type: none"> Redesign to improve the solution based on how well the solution meets the need. 	SE: Chapter 1 Lesson 2	SE/TE: 10-17, Big Ideas of Science, xxiii, The Big Question, xx, Untamed Science, xx, My Science Online, 11, 15, Check Your Understanding, 2, My Reading Web, 2, Vocab Flash Cards, 3, Unlock The Big Question, 10, 18, My Planet Diary, Biography, 10, Lab Zone, <i>How to Think Scientifically</i> , 10, <i>Exploring Scientific Thinking</i> , 13, <i>Using Scientific Reasoning</i> , 16, <i>Scientific Discovery</i> , 17, Vocabulary, 11, Assess Your Understanding, 13, 16, 17, Figure, 11, 12, 15, Apply it, 13, 14, Interactive Art, 15, Science Matters 118, 268, 307, Appendix A TE: Differentiated Instruction, 13, 15, 17, Chapter at a Glance, My Science Online, 10, 11, 12, 14, 16, Engage, 10, Explore, 10, Explain, 11, 12, 16, 26, Elaborate, 15, 25, ELL Support, 11, 21 st Century Learning, 15, 16, Response to Intervention, 13, 17, Teacher Demo, Lab Zone, 17A, Assess Your Understanding, 13, 17B, Key Concept Summaries, 17C, Review and Reinforce, 17D, Enrich, 17E, Lesson Quiz, 17F, Teach with Visuals, Teach Key Concept, 11, 14, Address Misconceptions, 12, Make Analogies, 13, Support the Big Q, 12, Apply it, 13, 14, 17

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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	SE: Chapter 3 Lesson 4	<p>SE: 104-113, Unlock The Big Question, 104, Explore the Big Question, 112, Answer the Big Question, 113, My Planet Diary, Blog, 104, Lab Zone, Is a New Substance Formed?, 104, What is a Physical Change, 106, Demonstrating Tarnishing, 109, Where was the Energy?, 113, My Science Online, 105, 107, 111, Vocabulary, 105, Assess Your Understanding, 106, Apply it, 107, Do the Math, 111, Interactive Art, 109, 112, Science Matters 118, 268, 307, 348</p> <p>TE: Differentiated Instruction, 107, 109, 113, Engage, 104, Explore, 104, Explain, 105, 106, 107, 108, Elaborate, 106, 107, 109, 110, Evaluate, 106, 109, 113, Support All Readers, 104, ELL Support, 105, 21st Century Learning, 105, Response to Intervention, 106, 109, 113, Teacher Demo, 106, 109, Professional Development Note, 106, Address Misconceptions, 108, Apply it, 107, Teach with Visuals, 108, Teach Key Concept, 105, 107, Lab Zone, 113A, Assess Your Understanding, 113B, Key Concept Summaries, 113C, Review and Reinforce, 113D, Enrich, 113E, Lesson Quiz, 113F</p>

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, Is a New Substance Formed?, 26, What is a Physical Change, 27, Demonstrating Tarnishing, 28, Where was the Energy?, 29, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
	<p>SE: Chapter 7 Lesson 6</p>	<p>SE: 258-263, Unlock The Big Question, 258, My Planet Diary, Blog, 258, Lab Zone, Collecting Micrometeorites, 258, Changing Orbits, 263, My Science Online, 259, Vocabulary, 259, Assess Your Understanding, 263, Figure, 259, 261, Apply it, 262, Virtual Lab, 260</p> <p>TE: Differentiated Instruction, 261, 263, Engage, 258, Explore, 258, Explain, 259, 260, 262, 263, Elaborate, 263, Evaluate, 263, Support All Readers, 258, ELL Support, 259, 21st Century Learning, 259, 262, Response to Intervention, 263, Teach with Visuals, 259, 261, Teach Key Concept, 259, Lab Zone, 263A, Assess Your Understanding, 263B, Key Concept Summaries, 263C, Review and Reinforce, 263D, Enrich, 263E, Lesson Quiz, 263F</p>

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, Collecting Micrometeorites, 102, Changing Orbits, 103, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
	<p>SE: Chapter 8 Lesson 4</p>	<p>SE: 298-301, Unlock The Big Question, 298, My Planet Diary, Misconceptions, 298, Lab Zone, How Communities Change, 298, Primary and Secondary, 301, My Science Online, 299, Vocabulary, 299, Assess Your Understanding, 301, Apply it, 300, Interactive Art, Art in Motion, 299, 300</p> <p>TE: Differentiated Instruction, 301, Engage, 298, Explore, 298, Explain, 299, 300, Elaborate, 301, Evaluate, 301, Support All Readers, 298, ELL Support, 299, Response to Intervention, 301, Apply it, 301, Teach Key Concept, 299, 300, Lab Zone, 301A, Assess Your Understanding, 301B, Key Concept Summaries, 301C, Review and Reinforce, 301D, Enrich, 301E, Lesson Quiz, 301F</p>

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		TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, How Communities Change, 30, Primary and Secondary, 31, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab
Standard 1: Physical Science		
Core Standard - Explain that all objects and substances in the natural world are composed of matter in different states with different properties.		
Core Standard - Understand that there are different forms of energy with unique characteristics.		
6.1.1 Understand that the properties and behavior of matter can be explained by a model which depicts particles representing atoms or molecules in motion.	SE: Chapter 3 Lessons 1, 2 Chapter 4 Lessons 1, 2, 3	SE/TE: xx-87, 88-91, 92-97, Big Ideas of Science, xx, The Big Question, xxii, Untamed Science, xxii, My Science Online, 85, 89, 93, 97, Check Your Understanding, 86, My Reading Web, 86, Vocab Flash Cards, 87, Unlock The Big Question, 88, 92, My Planet Diary, Career, 88, Science Stats, 92, Lab Zone, How Do You Describe Matter, 88, Observing Physical Properties, 90, What is a Mixture?, 92, Atoms and Molecules, 95, Separating Mixtures, 97, Vocabulary, 89, 93, 15, 21, Assess Your Understanding, 91, 11, 13, Figure, 10, 12, Apply it, 91, 93, Art in Motion, 95

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INDIANA ACADEMIC STANDARDS	SE Lessons (chapter & lesson numbers)	SE, TE, TR, TECH (page numbers)
		<p>TE: Introduction to Matter, xxii, From the Author, xxii, Differentiated Instruction, 85, 91, 95, 97, Chapter at a Glance, 85, My Science Online, xxii, 85, 86, 89, 90, 93, 94, Check for Understanding, 2, Preteach Vocabulary, 86, Preview Vocabulary, 87, Engage, 88, 92, Explore, 88, 92, Support All Readers, 88, 92, Explain, 89, 90, 91, 92, 97, Elaborate, 91, 93, 95, 97, Evaluate, 91, 95, 97, ELL Support, 87, 88A, 89, 92A, 93, 21st Century Learning, 89, 94, 97, Professional Development Note, 88A, 92A, Response to Intervention, 91, 95, 97, Lab Zone, 88B, 91A, 92, A, 97A, Assess Your Understanding, 91B, 97B, Key Concept Summaries, 91C, 97C, Review and Reinforce, 91D, 97D, Enrich, 91E, 97E, Lesson Quiz, 91F, 97F, Teach Key Concept, 90, Make Analogies, 95,</p> <p>TR: Lab Zone Resources, How Do You Describe Matter, 10, Observing Physical Properties, 11, What is a Mixture?, 12, Modeling Atoms and Molecules, 13, Separating Mixtures, 14, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TRL: Inquiry Warm-Up, Quick Lab</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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	SE: Chapter 4 Lessons 1, 2, 3	SE: 124-129, 132-139, 140-145 My Planet Diary, Fun Facts, 124, Science Stats, 132, Biography, 140, Lab Zone, What Are The Solids, Liquids, and Gas, 124, Modeling Particles, 126, Thick as Honey, 128, What Happens When You Breathe on a Mirror?, 132, Melting Ice., 134, Keeping Cool, 136, Observing Sublimation, 139, How Can Air Keep Chalk From Breaking?, 140, How Are Pressure and Temperature Related?, 141, Hot and Cold Balloons., 143, It’s a Gas., 145, Assess Your Understanding, 126, 128, 134, 136, 139, 141, 143, 145, Figure, 126, 127, 142, Interactive Art, 126, 144, Apply it, 127, 145, Virtual Lab, 128, 138, Explore the Big Question, 138, Answer the Big Question, 139

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		<p>TE: Differentiated Instruction, 125, 127, 129, 136, 137, 139, 143, 145, Chapter at a Glance, My Science Online, Engage, 124, 132, 140, Explore, 124, 132, 140, Explain, 125, 127, 128, 129, 133, 134, 135, 136, 137, 141, 142, 144, Elaborate, 128, 134, 135, 136, 138, 141, 143, 144, Evaluate, 129, 134, 136, 141, 143, 145, Support All Readers, 124, 132, 140, ELL Support, 125, 133, 141, 21st Century Learning, 125, 126, 137, 144, Response to Intervention, 129, 134, 136, 139, 141, 143, 145, Lab Zone, 129A, 139A, 145A, Assess Your Understanding, 129B, 139B, 145B, Key Concept Summaries, 129C, 139C, 145C, Review and Reinforce, 129D, 139D, 145D, Enrich, 129E, 139E, 145E, Lesson Quiz, 129F, 139F, F, Teach with Visuals, 125, 126, 133, 136, 137, 142, 143, Teach Key Concept, 125, 126, 133, 134, 135, 136, 137, 142, 144, Help Students Read, 125, Support the Big Question, 127, Apply it, 127, 134</p>

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		<p>TR: Lab Zone Resources, What Are The Solids, Liquids, and Gas, 39, Modeling Particles, 40, Thick as Honey, 41, What Happens When You Breathe on a Mirror?, 43, Melting Ice., 44-49, Keeping Cool, 53, Observing Sublimation, 54, How Can Air Keep Chalk From Breaking?, 55, How Are Pressure and Temperature Related?, 56, Hot and Cold Balloons., 57, It’s a Gas, 58, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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6.1.2 Explain the properties of solids, liquids and gases using drawings and models that represent matter as particles in motion whose state can be represented by the relative positions and movement of the particles.	SE: Chapter 4 Lessons 1, 2, 3	SE: 124-129, 132-139, 140-145 My Planet Diary, Fun Facts, 124, Science Stats, 132, Biography, 140, Lab Zone, What Are The Solids, Liquids, and Gas, 124, Modeling Particles, 126, Thick as Honey, 128, What Happens When You Breathe on a Mirror?, 132, Melting Ice., 134, Keeping Cool, 136, Observing Sublimation, 139, How Can Air Keep Chalk From Breaking?, 140, How Are Pressure and Temperature Related?, 141, Hot and Cold Balloons., 143, It’s a Gas., 145, Assess Your Understanding, 126, 128, 134, 136, 139, 141, 143, 145, Figure, 126, 127, 142, Interactive Art, 126, 144, Apply it, 127, 145, Virtual Lab, 128, 138, Explore the Big Question, 138, Answer the Big Question, 139 TE: Differentiated Instruction, 125, 127, 129, 136, 137, 139, 143, 145, Chapter at a Glance, My Science Online, Engage, 124, 132, 140, Explore, 124, 132, 140, Explain, 125, 127, 128, 129, 133, 134, 135, 136, 137, 141, 142, 144, Elaborate, 128, 134, 135, 136, 138, 141, 143, 144, Evaluate, 129, 134, 136, 141, 143, 145, Support All Readers, 124, 132, 140, ELL Support, 125, 133, 141, 21 st Century Learning, 125, 126, 137, 144, Response to Intervention, 129, 134, 136, 139, 141, 143, 145, Lab Zone, 129A, 139A, 145A, Assess Your Understanding, 129B, 139B, 145B, Key

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		Concept Summaries, 129C, 139C, 145C, Review and Reinforce, 129D, 139D, 145D, Enrich, 129E, 139E, 145E, Lesson Quiz, 129F, 139F, F, Teach with Visuals, 125, 126, 133, 136, 137, 142, 143, Teach Key Concept, 125, 126, 133, 134, 135, 136, 137, 142, 144, Help Students Read, 125, Support the Big Question, 127, Apply it, 127, 134 TR: Lab Zone Resources, What Are The Solids, Liquids, and Gas, 39, Modeling Particles, 40, Thick as Honey, 41, What Happens When You Breathe on a Mirror?, 43, Melting Ice., 44- 49, Keeping Cool, 53, Observing Sublimation, 54, How Can Air Keep Chalk From Breaking?, 55, How Are Pressure and Temperature Related?, 56, Hot and Cold Balloons., 57, It’s a Gas, 58, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab

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6.1.3 Using a model in which matter is composed of particles in motion, investigate that when substances undergo a change in state, mass is conserved.	SE: Chapter 3 Lesson 4 Chapter 4 Lesson 2	SE: 104-113, Unlock The Big Question, 104, Explore the Big Question, 112, Answer the Big Question, 113, My Planet Diary, Blog, 104, Lab Zone, Is a New Substance Formed?, 104, What is a Physical Change, 106, Demonstrating Tarnishing, 109, Where was the Energy?, 113, My Science Online, 105, 107, 111, Vocabulary, 105, Assess Your Understanding, 106, Apply it, 107, Do the Math, 111, Interactive Art, 109, 112, Science Matters 118, 268, 307, 348 TE: Differentiated Instruction, 107, 109, 113, Engage, 104, Explore, 104, Explain, 105, 106, 107, 108, Elaborate, 106, 107, 109, 110, Evaluate, 106, 109, 113, Support All Readers, 104, ELL Support, 105, 21 st Century Learning, 105, Response to Intervention, 106, 109, 113, Teacher Demo, 106, 109, Professional Development Note, 106, Address Misconceptions, 108, Apply it, 107, Teach with Visuals, 108, Teach Key Concept, 105, 107, Lab Zone, 113A, Assess Your Understanding, 113B, Key Concept Summaries, 113C, Review and Reinforce, 113D, Enrich, 113E, Lesson Quiz, 113F

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, Is a New Substance Formed?, 26, What is a Physical Change, 27, Demonstrating Tarnishing, 28, Where was the Energy?, 29, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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		<p>SE: 132-139, My Planet Diary, Science Stats, 132, Lab Zone, What Happens When You Breathe on a Mirror?, 132, Melting Ice., 134, Keeping Cool, 136, Observing Sublimation, 139, Assess Your Understanding, 134, 136, 139, Figure, 126, 127, 142, Virtual Lab, 138, Explore the Big Question, 138, Answer the Big Question, 139</p> <p>TE: Differentiated Instruction, 136, 137, 139, Chapter at a Glance, My Science Online, Engage, 132, Explore, 132, Explain, 133, 134, 135, 136, 137, Elaborate, 134, 135, 136, 138, Evaluate, 134, 136, Support All Readers, 132, ELL Support, 133, 21st Century Learning, 125, 126, 137, 144, Response to Intervention, 134, 136, 139, Lab Zone, 139A, Assess Your Understanding, 139B, Key Concept Summaries, 139C, Review and Reinforce, 139D, Enrich, 139E, Lesson Quiz, 139F, Teach with Visuals, 133, 136, 137, Teach Key Concept, 133, 134, 135, 136, 137, Apply it, 134</p> <p>TR: Lab Zone Resources, What Happens When You Breathe on a Mirror?, 43, Melting Ice., 44-49, Keeping Cool, 53, Observing Sublimation, 54, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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6.1.4 Recognize that objects in motion have kinetic energy and objects at rest have potential energy.	SE: Chapter 5 Lessons 1, 2	<p>SE: 156-161, 162-166, Unlock the Big Question, 156, 162, My Planet Diary, Fun Facts, 156, Field Trip, 162, Lab Zone, How High Does a Ball Bounce? 156, Can Your Feel the Power? 157, Mass Velocity and Kinetic Energy, 161, Sources of Energy, 167, What Makes a Flashlight Shine?, 162, Mechanical Energy, 164, Assess Your Understand, 157, 161, 167, My Science Online, 163, 165, Vocabulary, 163, Art in Motion, 158, Do the Math, 159, Figure, 160, 161, 165, Apply it 164, Interactive Art, 166</p> <p>TE: Differentiated Instruction, 159, 161, 165, 167, Chapter at a Glance, My Science Online, Engage, 156, 162, Explore, 156, 162, Explain, 157, 158, 160, 163, 165, Elaborate, 157, 159, 161, 167, Evaluate, 157, 161, 167, Support all Readers, 156, ELL Support, 157, 163, 21st Century Learning, 159, 160, 165, 166, Response to Intervention, 157, 161, 164, 167, Lab Zone, 161A, 167A, Assess Your Understanding, 161B, 167B, Key Concept Summaries, 161C, 167C, Review and Reinforce, 161D, 167D, Enrich, 161E, 167E, Lesson Quiz, 161F, 167F, Teach with Visuals, 161, 163, 165, 166, Teach Key Concept, 158, 165, Do the Math, 159, Teacher Demo, 167</p>

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		<p>TR: Lab Zone Resources, How High Does a Ball Bounce? 99, Can Your Feel the Power? 100-105, Mass Velocity and Kinetic Energy, 109, What Makes a Flashlight Shine?, 110, Mechanical Energy, 111, Sources of Energy, 112, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>6.1.5 Describe with examples that potential energy exists in several different forms (gravitational potential energy, elastic potential energy, and chemical potential energy, among others).</p>	<p>SE: Chapter 5 Lesson 1, 2</p>	<p>SE: 156-161, 162-166, Unlock the Big Question, 156, 162, My Planet Diary, Fun Facts, 156, Field Trip, 162, Lab Zone, How High Does a Ball Bounce? 156, Can Your Feel the Power? 157, Mass Velocity and Kinetic Energy, 161, Sources of Energy, 167, What Makes a Flashlight Shine?, 162, Mechanical Energy, 164, Assess Your Understand, 157, 161, 167, My Science Online, 163, 165, Vocabulary, 163, Art in Motion, 158, Do the Math, 159, Figure, 160, 161, 165, Apply it 164, Interactive Art, 166</p> <p>TE: Differentiated Instruction, 159, 161, 165, 167, Chapter at a Glance, My Science Online, Engage, 156, 162, Explore, 156, 162, Explain, 157, 158, 160, 163, 165, Elaborate, 157, 159, 161, 167, Evaluate, 157, 161, 167, Support all Readers, 156, ELL Support, 157, 163, 21st Century Learning, 159, 160, 165, 166, Response to Intervention, 157, 161, 164, 167, Lab Zone, 161A, 167A, Assess Your Understanding, 161B, 167B, Key Concept Summaries, 161C, 167C, Review and Reinforce, 161D, 167D, Enrich, 161E, 167E, Lesson Quiz, 161F, 167F, Teach with Visuals, 161, 163, 165, 166, Teach Key Concept, 158, 165, Do the Math, 159, Teacher Demo, 167</p>

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		<p>TR: Lab Zone Resources, How High Does a Ball Bounce? 99, Can Your Feel the Power? 100-105, Mass Velocity and Kinetic Energy, 109, What Makes a Flashlight Shine?, 110, Mechanical Energy, 111, Sources of Energy, 112, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>6.1.6 Compare and contrast potential and kinetic energy and how they can be transformed within a system from one form to another.</p>	<p>SE: Chapter 5 Lessons 1, 2, 3</p>	<p>SE: 156-161, 162-166, 168-173, Unlock the Big Question, 156, 162, 168, the Big Question, 172, Answer the Big Question, 173, My Planet Diary, Fun Facts, 156, Field Trip, 162, 168, Lab Zone, How High Does a Ball Bounce? 156, Can Your Feel the Power? 157, Mass Velocity and Kinetic Energy, 161, Sources of Energy, 167, What Makes a Flashlight Shine?, 162, Mechanical Energy, 164, , What Would Make a Card Jump? 168, Soaring Straws, 171, Law of Conservation of Energy, 173, Assess Your Understand, 157, 161, 167, 171, 173, My Science Online, 163, 165, Vocabulary, 163, Art in Motion, 158, Do the Math, 159, Figure, 160, 161, 165, 170, Apply it 164, 169, Interactive Art, 166, 170 TE: Differentiated Instruction, 159, 161, 165, 167, 171, 173, My Science Online, Engage, 156, 162, 168, Explore, 156, 162, 168, Explain, 157, 158, 160, 163, 165, 169, 170, 172, Elaborate, 157, 159, 161, 167, 169, 172, Evaluate, 157, 161, 167, 171, 173, Support all Readers, 156, 168, ELL Support, 157, 163, 169, 21st Century Learning, 159, 160, 165, 166, 169, Response to Intervention, 157, 161, 164, 167, 171, 173, Lab Zone, 161A, 167A, 173A, Assess Your Understanding, 161B, 167B, 173B, Key Concept Summaries, 161C, 167C, 173C, Review and Reinforce, 161D, 167D, 173D, Enrich, 161E, 167E, 173E, Lesson Quiz, 161F, 167F, 173F, Teach with Visuals, 161, 163, 165, 166, Teach Key Concept, 158, 165, 169, Do the Math, 159, Teacher Demo, 167, Address Misconceptions, 172</p>

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		<p>TR: Lab Zone Resources, How High Does a Ball Bounce? 99, Can Your Feel the Power? 100-105, Mass Velocity and Kinetic Energy, 109, What Makes a Flashlight Shine?, 110, Mechanical Energy, 111, Sources of Energy, 112, What Would Make a Card Jump? 113, Soaring Straws, 114, Law of Conservation of Energy, 115, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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6.1.7 Explain that energy may be manifested as heat, light, electricity, mechanical motion, and sound and is often associated with chemical reactions.	SE: Chapter 3 Lesson 4, Chapter 4 Lessons 1, 2	SE: 104-113, Unlock The Big Question, 104, Explore the Big Question, 112, Answer the Big Question, 113, My Planet Diary, Blog, 104, Lab Zone, Is a New Substance Formed?, 104, What is a Physical Change, 106, Demonstrating Tarnishing, 109, Where was the Energy?, 113, My Science Online, 105, 107, 111, Vocabulary, 105, Assess Your Understanding, 106, Apply it, 107, Do the Math, 111, Interactive Art, 109, 112, Science Matters 118, 268, 307, 348 TE: Differentiated Instruction, 107, 109, 113, Engage, 104, Explore, 104, Explain, 105, 106, 107, 108, Elaborate, 106, 107, 109, 110, Evaluate, 106, 109, 113, Support All Readers, 104, ELL Support, 105, 21 st Century Learning, 105, Response to Intervention, 106, 109, 113, Teacher Demo, 106, 109, Professional Development Note, 106, Address Misconceptions, 108, Apply it, 107, Teach with Visuals, 108, Teach Key Concept, 105, 107, Lab Zone, 113A, Assess Your Understanding, 113B, Key Concept Summaries, 113C, Review and Reinforce, 113D, Enrich, 113E, Lesson Quiz, 113F

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		<p>TR: Program Guide, Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, How Communities Change, 30, Primary and Secondary, 31, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
		<p>SE: 124-129, 132-139, My Planet Diary, Fun Facts, 124, Science Stats, 132, Lab Zone, What Are The Solids, Liquids, and Gas, 124, Modeling Particles, 126, Thick as Honey, 128, What Happens When You Breathe on a Mirror?, 132, Melting Ice., 134, Keeping Cool, 136, Observing Sublimation, 139, Assess Your Understanding, 126, 128, 134, 136, 139, Figure, 126, 127, Interactive Art, 126, Apply it, 127, Virtual Lab, 128, 138, Explore the Big Question, 138, Answer the Big Question, 139</p>

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INDIANA ACADEMIC STANDARDS	SE Lessons (chapter & lesson numbers)	SE, TE, TR, TECH (page numbers)
Standard 2: Earth and Space Science		
Core Standard - Understand the relationships between celestial bodies and the force that keeps them in regular and predictable motion.		
6.2.1 Describe and model how the position, size and relative motions of the earth, moon, and sun cause day and night, solar and lunar eclipses and phases of the moon.	SE: Chapter 6 Lesson 1, 2, 4	SE: 184-189, 190-197, 202-207, Unlock the Big Question, 184, 190, 202, Explore the Big Question, 207, My Planet Diary, Biography, 184, Misconceptions, 190, Blog, 202, Fun Facts, 208, Lab Zone, Earth’s Sky., 184, Observing the Night Sky, 187, Watching the Skies, 189, What Caused Day and Night?, 190, Sun Shadows, 193, How Does the Moon Move, 202, Moon Phases, 204, Reasons for the Seasons, 197, Eclipse, 207, Assess Your Understanding, 193, 197, 204, 207, Figure, 191, 193, 194, 195, 196, 205, 206, 207, Interactive Art, 186, 195, Do the Math, 196, Apply it, 186, 204 TE: Differentiated Instruction, 187, 189, 193, 195, 197, 205, 207, Engage, 184, 190, 202, Explore, 184, 190, 202, Explain, 184, 185, 186, 188, 191, 192, 194, 196, 203, 204, 205, 206, Elaborate, 186, 187, 189, 191, 193, 197, 204, 207, Evaluate, 189, 193, 197, 204, 207, Support All Readers, 184, 190, 197, ELL Support, 185, 191, 202, 21 st Century Learning, 187, 188, 192, 193, 196, 203, 204, 205, Response to Intervention, 187, 189, 193, 197, 204, 207, Teacher Demo, 191, Make Analogies, 188, 192, Lab Zone, 189A, 197A, 207A, Assess Your Understanding, 189B, 193, 197B, 207B, Key Concept Summaries, 189C, 197C, 207C, Review and Reinforce, 189D, 197D, 207D, Enrich, 189E, 197E, 207E, Lesson Quiz, 189F, 197F, 207F, Teach with Visuals, 185, 186, 194, 195, 203, 206, Build Inquiry, 195, Teach Key Concept, 185, 186, 191, 203

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		<p>TR: Lab Zone Resources, Earth’s Sky, 13, Observing the Night Sky, 14, Watching the Skies, 15, What Caused Day and Night?, 190, Sun Shadows, 16, How Does the Moon Move, 30, Moon Phases, 31, Reasons for the Seasons, 18-23, Eclipse, 32, When is High Tide?, 33, Modeling the Moons Pull on Gravity, 34, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>6.2.2 Recognize that gravity is a force that keeps celestial bodies in regular and predictable motion, holds objects to earth’s surface, and is responsible for ocean tides.</p>	<p>SE: Chapter 6 Lesson 3, 5</p>	<p>SE: 198-201, 208-211, Unlock the Big Question, 198, 208, My Planet Diary, Technology, 198, Fun Facts, 208, Lab Zone, What Factors Affect Gravity?, 198, What is Doing the Pulling?, 199, Around and Around We Go, 201, When is High Tide?, 208, Modeling the Moon’s Pull of Gravity, 211, Assess Your Understanding, 198, 199, 201, My Science Online, 209, Virtual Lab, 199, Figure, 200, Apply it, 211</p> <p>TE: Differentiated Instruction, 201, 211, Chapter at a Glance, My Science Online, Engage, 198, 208, Explore, 198, 208, Explain, 199, 200, 209, 210, Elaborate, 199, 200, 201, 211, Evaluate, 201, 211, Support All Readers, 198, 208, ELL Support, 199, 208, 21st Century Learning, 200, 210, Response to Intervention, 199, 201, 211, Teacher Demo, Lab Zone, 201A, 211A, Assess Your Understanding, 201B, 211B, Key Concept Summaries, 201C, 211C, Review and Reinforce, 201D, 211D, Enrich, 201E, 211E, Lesson Quiz, 201F, 211F, Teach Key Concept, 199, 209, 210, Support the Big Question, 201, Do the Math, 201, Teach with Visuals, 210</p> <p>TR: Lab Zone Resources, What Factors Affect Gravity?, 27, What is Doing the Pulling?, 28, Around and Around We Go, 29, When is High Tide?, 33, Modeling the Moon’s Pull of Gravity, 34, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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6.2.3 Understand that the sun, an average star where nuclear reactions occur, is the central and largest body in the solar system.	SE: Chapter 7 Lesson 2, 3	<p>SE: 230-235, 236-241, Unlock the Big Question, 229, 236, Explore the Big Question, 235, Answer the Big Question, 235, My Planet Diary, Disaster, Technology, 229, Lab Zone, How Big Is Earth?, 230, Speeding Around the Sun., 233, Clumping Planets., 235, How Can You Safely Observe the Sun? 236, Layers of the Sun, 239, Viewing Sun Spots, 241, Assess Your Understanding, 239, My Science Online, 231, Interactive Art, 232, 238, Do the Math, 231, 239, Figure, 232, 233, 238, 240, Art in Motion, 234,</p> <p>TE: Differentiated Instruction, 239, 240, My Science Online, 238, Support All Readers, 236, Engage, 236, Explore, 236, Explain, 237, 238, 240, Elaborate, 237, 238, 241, Evaluate, 239, ELL Support, 237, 21st Century Learning, 237, 240, Response to Intervention, 239, 241, Teacher Demo, Lab Zone, 241A, Assess Your Understanding, 241, 241B, Key Concept Summaries, 241C, Review and Reinforce, 241D, Enrich, 241E, Lesson Quiz, 241F, Teach Key Concept, 237</p> <p>TR: Lab Zone Resources, How Big Is Earth?, 82, Speeding Around the Sun.,83-88, Clumping Planets.,92, How Can You Safely Observe the Sun? 93, Layers of the Sun, 94, Viewing Sun Spots, 95, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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6.2.4 Compare and contrast the planets of the solar system with one another and with asteroids and comets with regard to their size, composition, distance from sun, surface features and ability to support life.	SE: Chapter 6 Lessons 1, 6, Chapter 7 Lessons 1, 2, 4, 5, 6	SE: 184-189, 212-215, Unlock the Big Question, 184, 212, My Planet Diary, Biography, 184, Voices from History, 212, Lab Zone, <i>Why Do Craters Look Different From Each Other?</i> , 212, <i>Moonwatching.</i> , 215, Earth’s Sky, 184, Observing the Night Sky, 187, Watching the Skies, 189, Interactive Art, 186, Do the Math, 196, Apply it, 186 TE: Differentiated Instruction, 187, 189, 215, Engage, 184, 212, Explore, 184, 212, Explain, 184, 185, 186, 188, 213,214, Elaborate, 186, 187, 189, 215, Evaluate, 189, 215, Support All Readers, 184, 212, ELL Support, 185, 213, 21 st Century Learning, 187, 188, 214, Response to Intervention, 187, 189, 215, Make Analogies, 188, Lab Zone, 189A, 215A, Assess Your Understanding, 189B, 215B, Key Concept Summaries, 189C, 215C, Review and Reinforce, 189D, 215D, Enrich, 189E, 215E, Lesson Quiz, 189F, 215F, Teach with Visuals, 185, 186, Teach Key Concept, 185, 186, 213, TR: Lab Zone Resources, Earth’s Sky, 13, Observing the Night Sky, 14, Watching the Skies, 15, <i>Different From Each Other?</i> , 35, , <i>Moonwatching</i> ,36, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab

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		<p>SE: 226-229, 230-235, 242-249, 250-257, 258-263, Unlock the Big Question, 229, 242, 250, 258, Explore the Big Question, 235, Answer the Big Question, 235, My Planet Diary, Fun Facts, 242, Discovery, 250, Blog, 258, Lab Zone, <i>What Is at the Center?</i>, 226, <i>What Is at the Center?</i>, 227, <i>A Loopy Ellipse</i>, 229, How Big Is Earth?, 230, Speeding Around the Sun., 233, Clumping Planets., 235, Ring around the Sun, 242, Characteristics of Inner Planets, 243, Greenhouse Effect, 249, How Big are the Planets, 250, Density Mystery, 251, Make a Model of Saturn, 257, Collecting Micrometeorites, 258, Changing Orbits, 263, Assess Your Understanding, 243, 249, 251, 257, 263, Interactive Art, 232, 243, 250, Do the Math, 231, Figure, 232, 233, 245, 246, 247, 253, 254, 255, 256, 259, Art in Motion, 234, Apply it 227, 249, 257, 262, Virtual Lab, 260</p> <p>TE: ELL Support, 231, 243, Lab Zone, 242, Engage, 230, 242, 250, 258, Explore, 230, 242, 250, 258, Explain, 231, 232, 234, 243, 251, 259, 260, 262, 263, Elaborate, 231, 233, 235, 243, 244, 257, 251, 259, 263, Evaluate, 233, 235, 243, 251, 263, Support All Readers, 242, Apply it, 249, Support the Big Q, 230, 246, 252, Response to Intervention, 233, 235, 243, 252, 263, Teacher Demo, 245, 255,</p>

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		21 st Century, Learning, 232, 245, 247, 253, 259, 262, Do the Math, 231, Teach Key Concepts, 234, 244, 247, 251, 254, Teach with Visuals, 234, 253, 259, 261, Address Misconceptions, 248, Differentiated Instruction, 233, 235, 245, 247, 255, 257, 261, 263, Lab Zone, 229A, 235A, 249A, 257A, 263A, Assess Your Understanding, 229B, 235B, 249B, 257B, 263B, Key Concept Summary, 229C, 235C, 249C, 257C, 263C, Review and Reinforce, 229D, 235D, 249D, 257D, 263D, Enrich, 229E, 235E, 249E, 257E, 263E, Lesson Quiz, 229F, 235F, 249F, 257F, 263F TR: Lab Zone Resources, What Is at the Center?, 79, What Is at the Center?, 80, A Loopy Ellipse, 81, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab

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6.2.5 Demonstrate that the seasons in both hemispheres are the result of the inclination of the earth on its axis which in turn causes changes in sunlight intensity and length of day.	SE: Chapter 6 Lesson 2	<p>SE: 190-197, Unlock the Big Question, 190, My Planet Diary, Misconceptions, 190, Lab Zone, What Causes Day and Night?, 190, Sun Shadows, 193, Reason for the Season, 197, Assess Your Understanding, 193, 196, Interactive Art, 195, Do the Math, 196, Figure, 191, 194, 195</p> <p>TE: Differentiated Instruction, 193, My Science Online, 191, Support All Readers, 190, Engage, 190, Explore, 190, Explain, 191, Elaborate, 191, Evaluate, 191, ELL Support, 190A, 21st Century Learning, 192, Professional Development Note, 190A, Response to Intervention, 193, Lab Zone, 17A, Assess Your Understanding, 197B, Key Concept Summaries, 197C, Review and Reinforce, 197D, Enrich, 197E, Lesson Quiz, 197F, Teach with Visuals, 194, Teach Key Concept, 191, Make Analogies, 192</p> <p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
Standard 3: Life Science		
Core Standard - Describe that all organisms, including humans, are part of complex systems found in all biomes (freshwater, marine, forest, desert, grassland, tundra).		
Core Standard - Understand that the major source of energy for ecosystems is light produced by major nuclear reactions in the sun.		

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<p>6.3.1 Describe specific relationships (predator/prey, consumer/producer or parasite/host) between organisms and determine whether these relationships are competitive or mutually beneficial.</p>	<p>SE: Chapter 8 Lesson 3 Chapter 9 Lessons 2, 4</p>	<p>SE: 288-297, Unlock the Big Question, 287, My Planet Diary, Fun Facts, 287, Lab Zone, Can You Hide a Butterfly?, 287, Adaptations for Survival, 290, Competition and Predation, 294, Types of Symbiosis. 297, Assess Your Understanding, 290, 294, 297, Interactive Art, Apply it, 289, 296, Figure, 288, 291, Interactive Art, 293, Do the Math, 294 TE: Differentiated Instruction, 291, My Science Online, 296, Support All Readers, 288, Engage, 288, Explore, 288, Explain, 289, Elaborate, 294, Evaluate, 290, ELL Support, 288A, 21st Century Learning, 296, Professional Development Note, 288A, Response to Intervention, 294, Teacher Demo, 289, Lab Zone, 298A, Assess Your Understanding, 298B, Key Concept Summaries, 298C, Review and Reinforce, 298D, Enrich, 298E, Lesson Quiz, 298F, Teach with Visuals, 291, Teach Key Concept, 290, Address Misconceptions, 289, Make Analogies, 291 TR: Lab Zone Resources, Can You Hide a Butterfly?, 26, Adaptations for Survival, 27, Competition and Predation, 28, Types of Symbiosis. 29, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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		<p>SE: 317-327, 334-347, My Science Online, 318, 323, 335, Unlock The Big Question, 317, 334, My Planet Diary, Discovery, 317, 334, Lab Zone, Where Did Your Dinner Come From? 317, Observing Decomposition, 321, Ecosystem Food Chains, 325, How Much Rain Is That?, 334, Inferring Forest Climate, 343, Vocabulary, 319, 335, Assess Your Understanding, 321, 325, 343, Figure, 318, 320, 335, 336, 337, 338, 339, 340, 341, Apply it, 322, 343, Do the Math, 325, 342, Virtual Lab, 324, Interactive Art, 323</p> <p>TE: Differentiated Instruction, 321, 323, 325, 337, 339, 65, 67, My Science Online, 318, Preview Vocabulary, 317, Support All Readers, 317, 334, Engage, 317, 334, Explore, 317, 334, Explain, 318, 335, 336, 338, 340, 342, Elaborate, 323, 339, 341, Evaluate, 343, ELL Support, 317A, 335, 21st Century Learning, 320, 337, Professional Development Note, 317, A, Response to Intervention, 321, 336, 343, Lab Zone, 49A, 343A, Assess Your Understanding, 325, 49B, 343B, Key Concept Summaries, 325C, 343C, Review and Reinforce, 325D, 343D, Enrich, 325E, 343E, Lesson Quiz, 325F, 343F, Teach with Visuals, 323, 338, 340, Teach Key Concept, 322, 324, 335, Address Misconceptions, 322, 335, Make Analogies, 321</p>

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		<p>TR: Lab Zone Resources, Where Did Your Dinner Come From? 41, Observing Decomposition, 42, Ecosystem Food Chains, 43-48, How Much Rain Is That?, 56, Inferring Forest Climate, 57, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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6.3.2 Describe how changes caused by organisms in the habitat where they live can be beneficial or detrimental to themselves or the native plants and animals.	SE: Chapter 8 Lesson 2, 3, 4 Chapter 9 Lesson 3, 4	SE: 280-287, 288-297, 298-301, Unlock the Big Question, 280, 288, 298, My Planet Diary, Technology, 280, Fun Facts, 288, Misconceptions, 298, Lab Zone, <i>Populations.</i> , 280, Primary and Secondary, 301, How Communities Change, 298, Assess Your Understanding, Interactive Art, 283, Do the Math, 281, Art in Motion, 299, 300, Apply it, 283, 290, 300 TE: ELL Support, 289, 299, Lab Zone, Engage, 280, 288, 298, Explore, 280, 288, 298, Explain, 281, 282, 289, 290, 291, 295, 296, 300, Elaborate, 281, 283, 284, 286, 287, 290, 293, 294, 297, 301, Evaluate, 284, 287, 290, 294, 297, 301, Do the Math, 281, Support All Readers, 280, 298, Apply it, 301, Support the Big Q, 300, Response to Intervention, 290, 294, 297, 301, Teach Key Concepts, 299, Teach with Visuals, 293, 295, My Science Online, 299, Differentiated Instruction, 283, 285, 287, 291, 293, 295, 297, 301, Address Misconceptions, 289, 292, Make Analogies, 291, Lab Zone, 287A, 297A, 301A, Assess Your Understanding, 287B, 297B, 01B, Key Concept Summary, 287C, 297C, 301C, Review and Reinforce, 287D, 297D, 301D, Enrich, 287E, 297E, 301E, Lesson Quiz, 287F, 297F, 301F TR: Lab Zone Resources, How Communities Change, 30, Primary and Secondary, 31, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab

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		<p>SE: 326-333, 334-347, My Science Online, 327, 335, Unlock The Big Question, 326, 334, My Planet Diary, Disaster, 326, Misconceptions, 334, Lab Zone, Are You Part of a Cycle?, 326, Following Water., 327, Carbon and Oxygen Blues, 329, How Much Rain Is That?, 334, Inferring Forest Climate, 343, Vocabulary, 319, 335, Assess Your Understanding, 321, 325, 343, Figure, 318, 320, 335, 336, 337, 338, 339, 340, 341, Apply it, 322, 343, Do the Math, 325, 342, Virtual Lab, 324, Interactive Art, 323</p> <p>TE: Differentiated Instruction, 329, 331,333, 337, 339, 65, 67, My Science Online, 318, Preview Vocabulary, 317, Support All Readers, 317, 334, Engage, 317, 334, Explore, 317, 334, Explain, 327, 328, 330, 332, 335, 336, 338, 340, 342, Elaborate, 323, 328, 332, 339, 341, Evaluate, 327, 329, 333, 343, ELL Support, 327, 335, 21st Century Learning, 330, 331, 332, 337, Professional Development Note, 317, A, Response to Intervention, 327, 333, 336, 343, Lab Zone, 333A, 343A, Assess Your Understanding, 49B, 3333B, 43B, Key Concept Summaries, 325C, 333C, 343C, Review and Reinforce, 333D, 343D, Enrich, 333E, 343E, Lesson Quiz, 333F, 343F, Teach with Visuals, 328, 331, 338, 340, Teach Key Concept, 328, 324, 335, Address Misconceptions, 322, 335, Make Analogies, 321</p>

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INDIANA ACADEMIC STANDARDS	SE Lessons (chapter & lesson numbers)	SE, TE, TR, TECH (page numbers)
		<p>TR: Lab Zone Resources, Are You Part of a Cycle?, 52, Following Water, 53, Carbon and Oxygen Blues, 54, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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INDIANA ACADEMIC STANDARDS	SE Lessons (chapter & lesson numbers)	SE, TE, TR, TECH (page numbers)
6.3.3 Describe how certain biotic and abiotic factors, such as predators, quantity of light and water, range of temperatures, and soil composition, can limit the number of organisms that an ecosystem can support.	SE: Chapter 8 Lesson 1, 2 Chapter 9, Lesson 3, 4	SE: 274-279, 280-287, Unlock the Big Question, 274, 280, Explore the Big Question, 278, My Planet Diary, Discovery, 274, Technology, 280, Lab Zone, What’s in the Scene?, 274, <i>Populations.</i> , 280, Organisms and their Habitat, 275, Lab Investigations, 277, Organism in the Ecosystem, 279, Assess Your Understanding, 275, 277, 279, Interactive Art, 283, Do the Math, Figure, 276-277, Apply it, 277, 284, 287, Real-World Inquiry, 278, Do the Math, 281, TE: Differentiated Instruction, 277, 278, 283, 285, 287, Support All Readers, 274, Engage, 274, 280, Explore, 274, 280, Explain, 275, 281, 282, Elaborate, 275, 281, 283, 284, 286, 287, Evaluate, 275, 284, 287, ELL Support, 274B, 21 st Century Learning, 276, 282, 283, 286, Professional Development Note, 274B, Response to Intervention, 275, 287, Teacher Demo, 277, Lab Zone, 279A, 287A, Assess Your Understanding, 279B, 287B, Key Concept Summaries, 279C, 287C, Review and Reinforce, 279D, 287D, Enrich, 279E, 287E, Lesson Quiz, 279F, 287F, Teach with Visuals, 276, Teach Key Concept, 278, 281, 285, Make Analogies, 286 TR: Lab Zone Resources, What’s in the Scene?, 11, Organisms and their Habitat, 12, Lab Investigations, 13-18, Organism in the Ecosystem, 22, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab

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		<p>SE: 326-333, 334-347, My Science Online, 327, 335, Unlock The Big Question, 326, 334, My Planet Diary, Disaster, 326, Misconceptions, 334, Lab Zone, Are You Part of a Cycle?, 326, Following Water., 327, Carbon and Oxygen Blues, 329, How Much Rain Is That?, 334, Inferring Forest Climate, 343, Vocabulary, 319, 335, Assess Your Understanding, 321, 325, 343, Figure, 318, 320, 335, 336, 337, 338, 339, 340, 341, Apply it, 322, 343, Do the Math, 325, 342, Virtual Lab, 324, Interactive Art, 323</p> <p>TE: Differentiated Instruction, 329, 331,333, 337, 339, 65, 67, My Science Online, 318, Preview Vocabulary, 317, Support All Readers, 317, 334, Engage, 317, 334, Explore, 317, 334, Explain, 327, 328, 330, 332, 335, 336, 338, 340, 342, Elaborate, 323, 328, 332, 339, 341, Evaluate, 327, 329, 333, 343, ELL Support, 327, 335, 21st Century Learning, 330, 331, 332, 337, Professional Development Note, 317, A, Response to Intervention, 327, 333, 336, 343, Lab Zone, 333A, 343A, Assess Your Understanding, 49B, 333B, 43B, Key Concept Summaries, 325C, 333C, 343C, Review and Reinforce, 333D, 343D, Enrich, 333E, 343E, Lesson Quiz, 333F, 343F, Teach with Visuals, 328, 331, 338, 340, Teach Key Concept, 328, 324, 335, Address Misconceptions, 322, 335, Make Analogies, 321</p>

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		<p>TR: Lab Zone Resources, Are You Part of a Cycle?, 52, Following Water, 53, Carbon and Oxygen Blues, 54, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>
<p>6.3.4 Recognize that plants use energy from the sun to make sugar (glucose) by the process of photosynthesis.</p>	<p>SE: Chapter 9 Lesson 1</p>	<p>SE: 312-317, Unlock the Big Question, 312, My Planet Diary, Misconceptions, 312, Lab Zone, Where Does Energy Come From?, 312, Energy From the Sun, 314, Looking into Pigments, 317, Assess Your Understanding, 314, 317, Interactive Art, 316, Do the Math, Apply it, 314, Virtual Lab, 315, Figure, 317</p> <p>TE: Differentiated Instruction, 315, 317, My Science Online, 313, 314, 315, 316, Engage, 312, Explore, 312, Support All Readers, 312, Explain, 313, 314, 315, 316, 317, Elaborate, 313, 314, 315, Evaluate, 314, 317, ELL Support, 312A, 313, Professional Development Note, 312A, Response to Intervention, 314, 317, Lab Zone, 312B, 317A, Assess Your Understanding, 317B, Key Concept Summaries, 317C, Review and Reinforce, 317D, Enrich, 317E, Lesson Quiz, 317F, Address Misconceptions, 317</p> <p>TR: Lab Zone Resources, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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6.3.5 Describe how all animals, including humans, meet their energy needs by consuming other organisms, breaking down their structures, and using the materials to grow and function.	SE: Chapter 9 Lesson 1, 2, 4	SE: 312-317, 318-325, 334-343, Unlock the Big Question, 312, 318, 334, My Planet Diary, Misconception, 312, Discovery, 318, 334, My Science Online, 313, 315, 323, Lab Zone, Where Does the Energy Come From? 312, Energy From the Sun, 314, Looking at Pigment, 317, Where Does Your Dinner Come From, 318, Observing Decomposition, 321, Ecosystem Food Ecosystem, 325, Where Did Your Dinner Come Form? 318, Observing Decomposition, 321, Ecosystem Food Chains, 325, Assess Your Understanding, 314, 317, 321, 325, Figure, 319, 320-321, Interactive Art, 323, Virtual Lab, 324, Do the Math, 325, Apply it, 322 TE: Engage, 312, 318, Explore, 312, 318, Explain, 313, 314, 315, 316, 317, 319, 320, 322, 324, Elaborate, 314, 318, 321, 323, 324, Evaluate, 314, 317, 318, 321, Support All Readers, 312, 318, Professional Development Note, 318A, 21 st Century Learning, 319, 320, 324, Apply it, 314, Teach Key Concepts, 314, 315, 319, 322, 324, Differentiated Instruction, 315, 317, 321, 323, 325, Address Misconceptions, 315, 322, Do the Math, 325, Teach with Visuals, 316, 323, Teacher Demo, 316, Response to Intervention, 321, Make Analogies, 321, Lab Zone, 317A, 325A, Assess Your Understanding, 317B, 325B, Key Concept Summaries, 317C, 325C, Review and Reinforce, 317D, 325D, Enrich, 317E, 325E, Lesson Quiz, 317F, 325F, Answer Key 317G

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		<p>TR: Lab Zone Resources, Where Does the Energy Come From? 37, Energy From the Sun, 38, Looking at Pigment, 39, Where Does Your Dinner Come From, 41, Observing Decomposition, 42, Ecosystem Food Ecosystem, 43-48, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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<p>6.3.6 Recognize that food provides the energy for the work that cells do and is a source of the molecular building blocks that can be incorporated into a cell's structure or stored for later use.</p>	<p>SE: Chapter 9 Lesson 1, 4</p>	<p>SE: 312-317, 334-343, Unlock the Big Question, 312, 334, My Planet Diary, Misconception, 312, Discovery, 334, My Science Online, 313, 315, 323, Lab Zone, Where Does the Energy Come From? 312, Energy From the Sun, 314, Looking at Pigment, 317, Where Did Your Dinner Come From? 318, Observing Decomposition, 321, Ecosystem Food Chains, 325 Assess Your Understanding, 314, 317, Virtual Lab, 324, Do the Math, 325</p> <p>TE: Engage, 312, 318, Explore, 312, 318, Explain, 313, 314, 315, 316, 317, 319, 320, 322, 324, Elaborate, 314, 321, 323, 324, Evaluate, 314, 317, 321, Support All Readers, 312, ELL Support, 313, 319, Support the Big Question, 313, 320, Response to Intervention, 314, 321, 325, 21st Century Learning, 320, 324, Apply it, 314, Teach Key Concepts, 314, 315, 319, Differentiated Instruction, 315, 317, 321, 323, 325, Address Misconceptions, 315, 322, Do the Math, 325, Teach with Visuals, 316, 323, Teacher Demo, 316, Make Analogies, 321, Lab Zone, 317A, 325A, Assess Your Understanding, 317B, 325B, Key Concept Summaries, 317C, 325C, Review and Reinforce, 317D, 325D, Enrich, 317E, 325E, Lesson Quiz, 317F, 325F, Answer Key 317G</p>

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		<p>TR: Lab Zone Resources, Where Does the Energy Come From? 37, Energy From the Sun, 38, Looking at Pigment, 39, Where Does Your Dinner Come From, 41, Observing Decomposition, 42, Ecosystem Food Ecosystem, 43-48, , Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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INDIANA ACADEMIC STANDARDS	SE Lessons (chapter & lesson numbers)	SE, TE, TR, TECH (page numbers)
Standard 4: Science, Engineering and Technology		
Core Standard - Apply a form of energy to design and construct a simple mechanical device.		
6.4.1 Understand how to apply potential or kinetic energy to power a simple device.	SE: Chapter 5 Lesson 1, 2	SE: 156-161, 162-166, Unlock the Big Question, 156, 162, My Planet Diary, Fun Facts, 156, Field Trip, 162, Lab Zone, How High Does a Ball Bounce? 156, Can Your Feel the Power? 157, Mass Velocity and Kinetic Energy, 161, Sources of Energy, 167, What Makes a Flashlight Shine?, 162, Mechanical Energy, 164, Assess Your Understand, 157, 161, 167, My Science Online, 163, 165, Vocabulary, 163, Art in Motion, 158, Do the Math, 159, Figure, 160, 161, 165, Apply it 164, Interactive Art, 166, Appendix A 350-351 TE: Differentiated Instruction, 159, 161, 165, 167, Chapter at a Glance, My Science Online, Engage, 156, 162, Explore, 156, 162, Explain, 157, 158, 160, 163, 165, Elaborate, 157, 159, 161, 167, Evaluate, 157, 161, 167, Support all Readers, 156, ELL Support, 157, 163, 21 st Century Learning, 159, 160, 165, 166, Response to Intervention, 157, 161, 164, 167, Lab Zone, 161A, 167A, Assess Your Understanding, 161B, 167B, Key Concept Summaries, 161C, 167C, Review and Reinforce, 161D, 167D, Enrich, 161E, 167E, Lesson Quiz, 161F, 167F, Teach with Visuals, 161, 163, 165, 166, Teach Key Concept, 158, 165, Do the Math, 159, Teacher Demo, 167

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		<p>TR: Lab Zone Resources, How High Does a Ball Bounce? 99, Can Your Feel the Power? 100-105, Mass Velocity and Kinetic Energy, 109, What Makes a Flashlight Shine?, 110, Mechanical Energy, 111, Sources of Energy, 112, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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6.4.2 Construct a simple device that uses potential or kinetic energy to perform work.	SE: Chapter 5 Lesson 1	<p>SE: 156-161, Unlock the Big Question, 156, My Planet Diary, Fun Facts, 156, Lab Zone, How High Does a Ball Bounce? 156, Can Your Feel the Power? 157, Mass Velocity and Kinetic Energy, 161, Sources of Energy, 167, Assess Your Understand, 157, 161, 167, Art in Motion, 158, Do the Math, 159, Figure, 160, 161, 165, Interactive Art, 166, Appendix A, 350-351</p> <p>TE: Differentiated Instruction, 159, 161, Chapter at a Glance, My Science Online, Engage, 156, Explore, 156, Explain, 157, 158, 160, Elaborate, 157, 159, 161, Evaluate, 157, 161, Support all Readers, 156, ELL Support, 157, 21st Century Learning, 159, 160, Response to Intervention, 157, 161, Lab Zone, 161A, Assess Your Understanding, 161B, Key Concept Summaries, 161C, Review and Reinforce, 161D, Enrich, 161E, Lesson Quiz, 161F, Teach with Visuals, 161, Teach Key Concept, 158, Do the Math, 159</p> <p>TR: Program Guide: Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, How High Does a Ball Bounce?, 99, Can Your Feel the Power? 100-105, Mass Velocity and Kinetic Energy, 109, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>

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INDIANA ACADEMIC STANDARDS	SE Lessons (chapter & lesson numbers)	SE, TE, TR, TECH (page numbers)
6.4.3 Describe the transfer of energy amongst energy interactions.	SE: Chapter 5 Lesson 1	<p>SE: 156-161, Unlock the Big Question, 156, My Planet Diary, Fun Facts, 156, Lab Zone, How High Does a Ball Bounce? 156, “Your” to “You”, 157, Mass Velocity and Kinetic Energy, 161, Sources of Energy, 167, Assess Your Understand, 157, 161, 167, Art in Motion, 158, Do the Math, 159, Figure, 160, 161, 165, Interactive Art, 166, Appendix A, 350-351</p> <p>TE: Differentiated Instruction, 159, 161, Chapter at a Glance, My Science Online, Engage, 156, Explore, 156, Explain, 157, 158, 160, Elaborate, 157, 159, 161, Evaluate, 157, 161, Support all Readers, 156, ELL Support, 157, 21st Century Learning, 159, 160, Response to Intervention, 157, 161, Lab Zone, 161A, Assess Your Understanding, 161B, Key Concept Summaries, 161C, Review and Reinforce, 161D, Enrich, 161E, Lesson Quiz, 161F, Teach with Visuals, 161, Teach Key Concept, 158, Do the Math, 159</p> <p>TR: Program Guide: Indiana Science, Engineering, and Technology Project, Rubber Band Rover, 55-58, Lab Zone Resources, How High Does a Ball Bounce?, 99, Can Your Feel the Power? 100-105, Mass Velocity and Kinetic Energy, 109, Chapter Activities, Interdisciplinary Activities, Scenario-Based Investigations, Inquiry Skills Activities</p> <p>TECH: My Science Online, Lab Zone, Untamed Science, Planet Diary, Interactive Art, Art in Motion, Virtual Lab</p>