Content Areas	Unit 1 Inquiry & Nature of Science	Unit 2 Composition & Classification of Matter	Unit 3 Solutions, Composition & Classification of Matter		Unit 4 Atomic Structure & Periodic Table
Pacing	Daily-18 days A/B- 9 days	Daily-12 days A/B- 6 days	Daily-10 days A/B- 5 days		Daily-15 days A/B- 7 days
SC Standards/	Standard PS-1 The student will demonstrate	Standard PS-3 The student will demonstrate	Standard PS-3 The student will demonstrate		Standard PS-2 The student will demonstrate
Indicators	an understanding of how scientific inquiry and technological design, including mathematical	an understanding of various properties and classifications of matter.	an understanding of various properties and classifications of matter.		an understanding of the structure and properties of atoms.
	analysis, can be used appropriately to pose questions, seek answers, and develop solutions.	Indicators PS-3.1, PS-3.4, PS-3.6, PS-3.7 Standard PS-4	Indicators PS-3.1, PS-3.2, PS-3.5	s Test	Indicators PS-2.1 through PS-2.7 Standard PS-3
	Indicators PS-1.1 through PS-1.9 These are reinforced throughout all of the	The student will demonstrate an understanding of chemical reactions and the classifications, structures, and properties of chemical		Weeks	The student will demonstrate an understanding of various properties and classifications of matter.
	subsequent units.	compounds. Indicator PS-4.6		Nine	Indicator PS-3.3
Content Focus	 Lab Safety Scientific Method Scientific Models SI Measurement 	 Substance Differentiation Atoms and Molecules Mixtures Physical Properties Physical Changes 	 Solute Solvent Solubility 	First	 Subatomic Particles Periodic Table Isotopes Chemical and Nuclear Reactions

Content Areas	Unit 1	Unit 2	Unit 3	Unit 4
	Inquiry & Nature of	Composition &	Solutions, Composition &	Atomic Structure &
	Science	Classification of Matter	Classification of Matter	Periodic Table
Suggested Activities	 Handout - Science Laboratory Report Guidelines with Rubric Lab - Absorbency (Liquid Volumetric Measurement) Lab - Metric Madness Worksheet - Mass and Weight Lab - Metric Mass and Volume Worksheet - The Triple and Four Beam Balances Worksheets - Measuring Devices Practice Measuring Devices - Balances Measuring Length Reading Thermometers Measuring Liquid Measuring Volume Demo - Candle (Observations vs. Inference) Folder - Metric Awareness All You Will Need to Know About Metric Test Your Metric Knowledge Metric: The Choice is Yours 	 Worksheet - Elements, Compounds, and Mixtures Lab - How Can Compounds be Classified (Honors Only) Lab - Chemical Changes vs. Physical Changes Lab - Observing a Chemical Reaction Demo - Evaporation Lab - Does Mass Change When the Form of a Substance Changes? Worksheet - Classifying Physical and Chemical Properties an Assessment Demo - Introduction to Chemical Properties Lab - Classification with Nuts and Bolts Worksheet - Properties of Matter – Physical or Chemical Lab - Classification of Matter Lab - Separating Mixtures Density Labs Density of Sand How Dense Is It? Determining Density 	 Lab - Rates of Reaction (CP Only) Lab - Alka Seltzer (Honors Only) Home Project - Density Bottles Lab - Polar and Non-polar Solutes and Solvents (Enrichment) Lab - How Does Temperature Affect Solubility Lab-Sugar Cube 	 Handout - Periodic Chart of the Elements Project - Groups of Elements Research (Honors presentations) Worksheet - Periodic Table Crossword Worksheet - Blank Periodic Table Worksheet - Graphing Periodic Table Trends Worksheet - Periodic Table Trends Worksheet - Predicting an Element's Group and Period Worksheet - Skill sheet 2- 2- Electron Cloud Models of Atoms Worksheet - The Importance of Metals Worksheet - Metals, Nonmetals and Metalloids Flame Test for Metals Lab (CP- Demo; Honors-full lab) Lab - Easter Egg Isotopes Lab - Candium Isotope Worksheet - Isotopes or Different Elements Worksheet - Isotope Notation Worksheet - Isotope Practice

Content Areas	Unit 1	Unit 2	Unit 3	Unit 4
	Inquiry & Nature of	Composition &	Solutions, Composition &	Atomic Structure &
	Science	Classification of Matter	Classification of Matter	Periodic Table
	 Simplified Rules for Determining Number of Significant Digits (Honors Only) Significant Figures – Practice Problems (Honors Only) Scientific Measurement – Reading Graduated Cylinders Scientific Measurement – Using the Triple Beam Balance Scientific Measurement – Using the Triple Beam Balance Scientific Measurement – Measuring in The Metric System The International System of Units SI Mass and Weight Metric Volume Lab The Metric System – Practice Problems Accuracy and Precision You Are So Dense Worksheet/Notes - Volume, Time, and Temperature 	 Lab - Heat Curve/Phase Change Diagram Using Vernier Probeware Activity - States of Matter Chart Activity - States of Matter Foldable Worksheet - Heating Curves Gas Laws Enrichment (Honors Only) Boyle's Law Graphing Sheet Charles' Law Graphing Sheet Gas Law Problems Sheet Gas Laws Quiz Gas Laws Review Problems for Overhead Gas Laws Review Problems 		 Worksheet - Ion Diagram Activity Worksheet - Atomic Math Challenge 1, 2, 3, and 4 Worksheet - Atomic Structure and Isotopes Group Project - The Harnessed Atom (book and questions) Lab - Half-life simulation (Enrichment) Worksheet - Nuclear Applications Pros and Cons T - chart Worksheet - Writing Prompts for Nuclear Applications Worksheet - Elements and Compounds - The Difference Handout - Elements Note Sheet Worksheet - Element Practice Competition Game Worksheet - Periodic Table Practice

Content Areas	Unit 1 Inquiry & Nature of Science	Unit 2 Composition & Classification of Matter	Unit 3 Solutions, Composition & Classification of Matter	Unit 4 Atomic Structure & Periodic Table
	 Activity - No Need to Count Your Pennies King Henry Metrics (CP Only) Activity - Metrics Conversion Foldable Worksheets - Metric Puzzles (three levels) Metrics Practice Folder Metrics Conversions Practice Worksheet Metrics Conversion Practice Worksheet Metrics Practice Worksheet Metrics Practice Makeup Problems Metrics Quiz Physical Science CP Assessing Your Math Skills Scientific Notation and Significant Figures Folder (Honors Only) Adding and Subtracting Numbers in Scientific Notation Exponents Practice Multiplying and Dividing in Scientific 			
	Notation 4. Physical Science Honors Math Quiz			

Content Areas	Unit 1	Unit 2	Unit 3	Unit 4
	Inquiry & Nature of	Composition &	Solutions, Composition &	Atomic Structure &
	Science	Classification of Matter	Classification of Matter	Periodic Table
	 Physical Science Honors Math Quiz (version 2) Scientific Notation Practice Scientific Notation Practice Problems Significant Figures and Scientific Notation Practice Sheet Significant Figures Quiz Activity - Equipment Bingo Game w/cards Lab - Accuracy and Precision (Honors Only) Accuracy and Precision Lab Accuracy and Precision Practice Problems pg. 1, 2 Worksheet/Notes- Controlled Experiments with Variables Worksheet-Graphing Word Problems (Honors Only) Worksheet-Graphing Summits (CP Only) 			

Content Areas	Unit 1 Inquiry & Nature of Science	Unit 2 Composition & Classification of Matter	Unit 3 Solutions, Composition & Classification of Matter	Unit 4 Atomic Structure & Periodic Table
	 Worksheets-Graphing Packet Worksheets pg. 1- 4 Activity - Dimensional Analysis Game Worksheet-Dimensional Analysis Practice Notes-Steps for Dimensional Analysis Worksheet-Scientific Method Activity-Scientific Method Foldable Worksheet-Simpson's Scientific Method Worksheet-Sponge Bob Bikini Bottom Scientific Methods 			
Textbook Correlations	Prentice Hall Physical Science: Concepts in Action Science Skills Appendix pp. 656-661	Prentice Hall Physical Science: Concepts in Action Chapters 2 and 3	Prentice Hall Physical Science: Concepts in Action Chapter 8: 8-1 and 8.2	Prentice Hall Physical Science: Concepts in Action Chapters 4, 5, and 10

Content Areas	Unit 5 Chemical Bonding	Unit 6 Chemical Reactions		Unit 7 Acids & Bases/Organic & Inorganic Substances	Unit 8 Motion & Forces
Pacing	Daily-15 days A/B- 7 days	Daily-10 days A/B- 5 days		Daily-7 days A/B- 3 days	Daily-20 days A/B- 10 days
SC	Standard PS-4	Standard PS-4	1	Standard PS-3	Standard PS-5
Standards/ Indicators	The student will demonstrate an understanding of chemical reactions and the classifications, structures, and properties of chemical compounds. Indicator PS-4.1 through PS-4.5 Standard PS-2 The student will demonstrate an understanding of the structure and properties of atoms.	The student will demonstrate an understanding of chemical reactions and the classifications, structures, and properties of chemical compounds. Indicator PS-4.7 through PS-4.11	Nine Weeks Test	The student will demonstrate an understanding of various properties and classifications of matter. Indicators PS-3.2, PS-3.8	The student will demonstrate an understanding of the nature of forces and motion. Indicators PS-5.1 through PS-5.10
Content Focus	Indicator PS-2.5 Covalent Bonding Ionic Bonding Binary Compounds	 Chemical Reactions Catalysts Balance Equations 	Second N	 Organic Inorganic Acids Bases 	 Speed Velocity Acceleration Force Weight Gravity

Content Areas	Unit 5 Chemical Bonding	Unit 6 Chemical Reactions	Unit 7 Acids & Bases/Organic & Inorganic Substances	Unit 8 Motion & Forces
Suggested Activities	 Worksheet - Spot the Bonding (CP use as ionic vs. covalent; Honors use as enrichment) Worksheet - Bonding Basics - Covalent Bonds Handout - Handy Dandy Oxidation Sheet Worksheet - Some Common Ions Word Find (Enrichment) Worksheet - Noble Gas Worksheet - Ionic Bonding - Formulas and Names (CP #1-4; Honors #1-10) Activity - Ionic Bonding Puzzles Worksheet - Writing Ionic Compounds and Naming Them (Enrichment) Worksheet - Writing Ionic Formulas and Numbers of Atoms in a Compound Activity - Vriting Formulas with Paper Ions Activity - Formulas For Ionic Compounds (Honors Enrichment) Worksheet - Writing Formulas (Criss-Cross Method) (Honors Only) Activity - Molecular Models 	 Lab - Endothermic Exothermic Lab - Alka Seltzer Lab - Conservation of Mass Demos - Ziploc Chemistry Activity - Reaction Cards Game Worksheet - Balancing and Type of Reactions (mixture of essential and enrichment) Worksheet - Balancing Act Demo - Chemical Reactions Lab (Honors Only) Lab - Evidence for Chemical Change - A Double Displacement Lab Worksheet - Balancing Worksheets (mixture of essential and enrichment) Balancing Equations Quiz Chemical Reactions/ Balancing Equations Skill - Classifying Classifying Chemical Reactions Demo - Easy Microscale Electrolysis of Water 	 Lab - Acids & Bases Lab - Acids/Bases/ Neutralization Quiz - Acids and Bases Lab - Acids & Bases Using Vernier Probes Lab - Neutralization pH Lab - How Are Common Acids and Bases Identified? Lab - Molecular Model Worksheet - Organic Chemistry Practice Worksheet - Inorganic v. Organic 	 Lab - Airplane Speed Worksheet - Speed and Acceleration Problems Lab - Golf Ball Speed and Acceleration Lab - Bouncy Ball Acceleration Lab - Race Car Speed Worksheet - Distance Time Graphs Worksheet - Speed & Acceleration Worksheet Packet - Speed and Graphing Practice Problems Determining Speed (Velocity) Calculating Average Speed Acceleration Calculations Graphing Distance vs. Time Graphing Distance vs. Time Lab - What Gives Bones Their Strength (Force Lab) Demo - Inertia Activities Worksheet - Newton's Second Law of Motion Calculations Lab - Roller Coaster Lab - The Jet Car

Content Areas	Unit 5 Chemical Bonding	Unit 6 Chemical Reactions	Unit 7 Acids & Bases/Organic & Inorganic Substances	Unit 8 Motion & Forces
	 Activity - Formulas Competition Game (Honors Only) Lab - Bond Breakers (Enrichment) Worksheet - Naming Ionic Compounds (Enrichment) Worksheet - Formulas and Names Bonding Practice Types of Chemical Bonds Number of Atoms in a Formula Writing Binary Formulas Naming Compounds (Mixed) Handout - Names and Formulas Reference Sheet Handout - Writing Formulas and Counting Atoms Notes 	 Worksheet - Are These Single and Double Replacement Reactions Balanced? Worksheet - Big Balancing Practice Demo - Conservation of Mass 		 Lab - Finding the Acceleration Due to Gravity and Determining Percent Error Lab - Force and Friction Worksheet - Force and Acceleration Worksheet - Gravity & Acceleration 1 & 2 Lab - Force and Motion- Various Activities with Distance/Displacement/ Motion (from SDE)
Textbook Correlations	Prentice Hall Physical Science: Concepts in Action Chapter 6	Prentice Hall Physical Science: Concepts in Action Chapter 7	Prentice Hall Physical Science: Concepts in Action Chapter 9, 8.3, 8.4	Prentice Hall Physical Science: Concepts in Action Chapters 11 and 12

Content Areas	Unit 9 Energy Transformation/Work		Unit 10 Electricity	Unit 11 Magnetism	Unit 12 Wave Characteristics & Behavior	
Pacing	Daily-11 days A/B- 5 days		Daily-10 days A/B- 5 days	Daily-3 days A/B- 2 days	Daily-14 days A/B- 7 days	
SC Standards/ Indicators	Standard PS-6 The student will demonstrate an understanding of the nature, conservation, and transformation of energy. Indicators PS-6.1 through PS-6.4	ks Test	Standard PS-6 The student will demonstrate an understanding of the nature, conservation, and transformation of energy. Indicators PS-6.5 through PS-6.9	Standard PS-6 The student will demonstrate an understanding of the nature, conservation, and transformation of energy. Indicators PS-6.10 through PS-6.11	Standard PS-7 The student will demonstrate an understanding of the nature and properties of mechanical and electromagnetic waves. Indicators PS-7.1 through PS-7.7	Projects
Content Focus	 Energy Conservation Potential Energy Kinetic Energy Work 	ne Weeks	 Electric Current Electric Charge Electric Circuits Ohm's Law 	 Alternating and Direct Current Magnetism 	 Mechanical Wave Electromagnetic Wave Wave Behavior Doppler Effect 	w and
Suggested Activities	 Activity - The Unfortunate Weekend/Energy Forms & Conversions Lab - How High Does the Ball Bounce? Lab - Bouncy Ball Energy <i>(not on disk)</i> Lab - The Energy of a Pendulum Worksheet - Work Practice Problems Worksheet - Work Problems 	Third Ni	 Worksheet - Ohm's Law Practice Set Demo - Your Admirer is a Balloon Demo - What Will a Charged Balloon Attract? Demo - Dancing Paper Bunnies Lab - Simple Electroscope Demo - Runaway Cola Can Lab - Electricity Cut and Paste Circuits 	 Demo - Circles of Magnetism I Demo - Circles of Magnetism IV Project - Uses of Magnetism Lab - Make an Electroscope Lab - Exploring Electromagnets (not on disk) Lab - How Does an Electromagnet Work (not on disk) 	 Activity - Behavior of Light Waves Worksheet - Name That Sound Lab - How Can the Characteristics of Waves Be Measured? Worksheet - Wave Problems Weblab - Sounds Amazing Lab - Sound Activities (Enrichment) 	EOC Review

Content Areas	Unit 9 Energy Transformation/Work	Unit 10 Electricity	Unit 11 Magnetism	Unit 12 Wave Characteristics & Behavior	
	 Lab - Human Horsepower (Enrichment) Lab - How Powerful Am I (Enrichment) Worksheet - Mechanical Advantage Problems (Enrichment) Lab - Machine Lab (Enrichment) Worksheet - Calculating Power (Enrichment) Lab - Insulators and Conductors (Honors enrichment) Lab - Insulators and Conductors (Honors enrichment) Lab - How Much Work Worksheet - Energy and Work Problems Lab - Arm and Leg Power Demo - Blast Off! Station Lab - Station Break (Energy Conversions) Demo - Watt's a Joule 	 Worksheet - Electricity Problems PowerPoint - Electricity (not on disk) Lab - Build a Conductivity Tester Activity - Electrical Cards Folder - Electrical Calculations Calculating Current Calculating Voltage Calculating Voltage Calculating Notage Calculating Power Calculating Power Calculating Power Calculating Electrical Energy and Cost Series and Parallel Circuits Worksheet - Electric Power Practice Set (Enrichment) Worksheet - Electrical Energy Practice Set Weblab - Blobz Guide Electric Circuits Demo - Faraday Cage Lab - Principles of Electrical Circuits Lab - Circuit Circus Activity - Energy Ball 	 Lab - Make an Electric Motor(<i>not on disk</i>) Lab - Mystery Envelopes 	 Project - Tsunami Wave Interdisciplinary Project Worksheet - Wave Velocity Calculations Lab - Wave Properties Demo - Slinky Demonstration Demo - Interference of Waves Station Lab - Reflection Introduction Station Lab - Refraction Introduction Lab - What Can Cause the Path of Light to Bend Demo - Separating Light into Colors Demo - Observing Interference Patterns 	

Content Areas	Unit 9 Energy Transformation/Work	Unit 10 Electricity	Unit 11 Magnetism	Unit 12 Wave Characteristics & Behavior	
Textbook Correlations	Prentice Hall Physical Science: Concepts in Action Chapters 14.1 and 15	Prentice Hall Physical Science: Concepts in Action Chapter 20	Prentice Hall Physical Science: Concepts in Action Chapter 21	Prentice Hall Physical Science: Concepts in Action Chapters 17, 18.1, 18.2, 18.3	