

First Nine Weeks				Second Nine Weeks					
Number of Weeks	Unit		Topic		Number of Weeks	Unit		Topic	
2	1.1	The Nature of Science	1	Scientific Methods Mystery Power Analysis	3	2.1	Chemical Bonds	1	Using the Periodic Table Ionic Bonds Covalent Bonds Collision Theory Colligative Properties
			2	SI System				2	Chemical Formulas Ionic Bonds Covalent Bonds
			3	Conversions Unit Conversions Unit Conversions 2				3	Balance Equations Chemical Equations Balancing Chemical Equations
			4	Interpret Data Graphing Skills Exploring Data using Histograms Describing Data using Statistics Mean, Medium and Mode				4	Predict Products of Chemical Reactions Chemical Equations Balancing Chemical Equations
2	1.2	Classification of Matter	1	Mixtures	2	2.2	Chemical Reactions	1	Mass and Chemical Change
			2	Properties Mystery Powder Analysis Density Laboratory Mineral Identification Phase Changes Colligative Properties Density Experiment: Slice and Dice Freezing Point of Salt Water Circuit Builder pH Analysis pH Analysis: Quad Color Indicator					

			3	Physical and Chemical Changes Chemical Equations Phase Changes Freezing Point of Salt Water Colligative Properties				2	Law of Conservation of Mass and Energy Balancing Chemical Equations Chemical Equations
			4	Types of Mixtures Solubility and Temperature Colligative Properties Freezing Point of Salt Water					
			5	Separation				3	Distinguish Reaction Types Balancing Chemical Equations Mystery Powder Analysis Cell Energy Cycle Limiting Reactants Chemical Equations Temperature and Particle Motion
			6	Elements and Compounds Element Builder					
1.5	1.3	Solids, Liquids and Gases	1	States of Matter Phase Changes				4	Endothermic and Exothermic Reactions
			2	Gases Temperature and Particle Motion Boyle's Law and Charles' Laws Colligative Properties Electron Configuration Diffusion				5	Connect Balanced Equations with Conservation of Mass and Energy
								6	Gas Laws Temperature and Particle Motion Boyle's Law and Charles' Laws Colligative Properties
1.5	1.4	Properties of Atoms and the Periodic Table	1	Properties of Subatomic Particles	2	2.3	Acids and Bases	1	Identify Acidic, Basic and Neutral Substances pH Analysis pH Analysis: Quad Color Indicator Titration

			2	Numbers of Subatomic Particles				2	Strengths of antacids pH Analysis pH Analysis: Quad Color Indicator Titration
1.5	1.5	Elements and their Properties	1	Composition of Atoms Bohr Model: Introduction Bohr Model of Hydrogen Element Builder Electron Configuration	2	2.4	Nuclear Chemistry	3	Acid Rain
			2	Metals, Metalloids, Nonmetals Electron Configuration Element Builder Heat Transfer by Conduction				1	Investigate Radioactive Isotopes Half-life Nuclear Decay
			3	Periodic Table Electron Configuration				2	Fission and Fusion
			4	Number of Subatomic Particles					

Third Nine Weeks				Fourth Nine Weeks					
Number of Weeks	Unit		Topic		Number of Weeks	Unit		Topic	
2	3.1	Motion and Speed	1	Speed on a Ramp Inclined Plane – Sliding Objects Inclined Plane – Rolling Objects	1.5	4.1	Thermal Energy and Heat	1	Behavior of Warm and Cold Objects
			2	Speed and Velocity Distance-Time and Velocity-Time Graphs				2	Thermal Energy Energy Conversion in a System Temperature and Particle Motion Heat Transfer by Conduction Heat Absorption Conduction and Convection Greenhouse Effect Radiation Phase Changes Calorimetry Lab
			3	Graphing Velocity and Acceleration Distance-Time Graphs				3	Conduction, Convection, Radiation Heat Transfer by Conduction Heat Absorption

				Distance Time and Velocity Time Graphs				Conduction and Convection Energy Conversion in a System Radiation Calorimetry Lab Phase Changes	
			4	Solving for Variables in Equations Solving Formulas for any variable			4	Specific Heat Calorimetry Lab	
			5	Graphing Experimental Data Reaction Time 1 (Graphs and Statistics) Reaction Time 2 (Graphs and Statistics)					
2	3.2	Forces and Motion	1	Mass and Weight Weight and Mass	2	4.2 4.3	Mechanical Waves and the Electromagnetic Spectrum	1	Properties of Waves Longitudinal Waves Sound Beats and Sine Waves Phased Array Ripple Tank Simple Harmonic Motion Earthquake - Recording Station
			2	Acceleration Free-Fall Laboratory				2	Wavelength, Frequency, Amplitude Photoelectric Effect
			3	Newton's Laws of Motion Force and Fan Carts Fan Cart Physics Atwood Machine				3	Transverse and Longitudinal Waves Longitudinal Waves
			4	Law of Conservation of Momentum Roller Coaster Physics Air Track 2D Collisions				4	Mechanical and Electromagnetic Waves Longitudinal Waves Phased Array Ripple Tank Simple Harmonic Motion Earthquake - Recording Station Sound Beats and Sine Waves Herschel Experiment Star Spectra Photosynthesis Lab
1	3.3	Forces in Fluids	1	Pressure and Volume of a Gas Boyle's Law and Charles' Law Colligative Properties Phase Changes Temperature and Particle Motion	1.5	4.4	Sound and Optics	1	Sound and Light Waves Hearing: Frequency and Volume Sound Beats and Sine Waves Doppler Shift Doppler Shift Advanced Basic Prism Subtractive Colors Additive Colors

								Color Absorption Laser Reflection Refraction
								2 Noise Reduction Technology
								3 Wave Interactions
2	3.4	Work, Power, and Machines	1	Force and Distance				
			2	Force, Work and Power Inclined Plane - Simple Machine Pulley Lab Ants on a Slant (Inclined Plane)	4	4.5	Electricity and Magnetism	1 Electrical Circuits Circuit Builder Circuits Advanced Circuits Magnetism Electromagnetic Induction Magnetic Induction Charge Launcher
			3	Simple Machines Inclined Plane - Simple Machine Wheel and Axle Levers Pulley Lab Torque and Moment of Inertia				2 Electrical Safety Devices Household Energy Usage Energy Conversions
			4	Compound Machine				
			5	Mechanical Advantage and Efficiency Inclined Plane - Simple Machine Wheel and Axle Levers Pulley Lab				
2	3.5	Energy	1	Gravitational Force Gravitational Force Pith Ball Lab				
			2	Law of Conservation of Energy Energy of a Pendulum Pulley Lab				

				Household Energy Usage Road Trip (Problem Solving)					
			3	Energy Transformations Potential Energy on Shelves Roller Coaster Physics Energy Conversion in a System Energy of a Pendulum Inclined Plane - Sliding Objects Energy Conversions					