QUARTER #1		
TOPIC		
Qualitative-Quantitative Observations		
Inferring-Predicting		
Physical Science		
Scientific Inquiry Method		
Controlled Experiment		
Manipulated-Responding Variable		
Graphing		
Scientific Models, Theories, Laws		
Laboratory Safety-MSDS Sheets		
Technology-Design Process		
Science Ethics: Global Warming		
Matter		
Chemical-Physical Properties		
Elements – Compounds-Mixtures		
Measuring Mass, Weight, Length, Volume		
Density		
Physical-Chemical Changes		
Law of Conservation of Mass-Energy	•	
Energy		
Temperature		
Thermal Energy		
Exothermic-Endothermic		
Kinetic-Potential Energy		
Chemical Energy		
Electromagnetic Energy		
Electrical Energy		
Electrolysis		

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QUARTER #2		
TOPIC		
States of Matter		
Amorphous-Crystalline Solids		
Surface Tension		
Viscosity		
Changes of State with Change of State Energy		
Gas Pressure-Volume-Temperature Energy		
Gas Laws		
Development of Atomic Theory and Atomic Mass		
Atomic Particles-Atomic Number-Atomic Mass		
Isotopes & Bohr Models		
Development & Organization of Periodic Table		
Metallic-Metalloid-Nonmetal-Noble Gas Propellants		
Nuclear Reactions-Fission-Fusion		
Radioactivity-alpha-Beta-Gamma Radiation &		
Valence Electrons and Chemical Bonding		
Electron Dot Diagrams		
Ionic-Covalent Bonding		
Chemical Reactions		
Chemical Equations		
Conservation of Mass-Energy		
Types of Chemical Reactions		
Energy & rates of Chemical Reactions		
Exothermic-Endothermic		
Catalyst-Enzymes-Inhibitors		
Acids-Bases and Solutions		

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QUARTER #3		
TOPIC		
Finish Chemical Reactions		
Relative Motion		
Reference Points		
Speed-Velocity-Acceleration		
Graphing Motion		
Net Forces		
Balanced-Unbalanced Forces		
Static-Sliding-Rolling-Fluid Friction		
Gravity-Weight-Mass		
Free Fall – Air Resistance		
Projectile Motion		
Newton's First-Second-Third Laws of Motion		
Momentum		
Conservation of Momentum		
Forces in Fluids		
Pressure-Buoyancy Archimedes's Principles		
Pascal's Principle – Bernoulli's Principle		
Word-Power-Energy		
Kinetic-Potential Energy		
Forms of Energy		
Energy Transformations		
Conservation of Energy		

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QUARTER #4			
TOPIC			
Temperature-Thermal Energy-Heat			
Specific Heat			
Conduction-Convection-Radiation			
Thermal Energy & Changes of State			
Thermal Expansion			
Heat Engines & Cooling Systems			
Waves & Energy			
Mechanical-Electromagnetic Waves			
Wave Amplitude – Wavelength-Frequency Speed			
Wave Reflection-Refraction-Diffraction-Interference			
Standing Waves & Resonance			
Seismic Waves & Tsunamis			
Sound Waves			
Loudness-Intensity			
Pitch-Frequency			
The Doppler Effect & Shock Waves			
Music-Sound-Acoustics			
Electromagnetic Waves			
Electromagnetic Spectrum			