Science 8 Core Knowledge

Liberty Common High School

Month	**Unit Topics**
August/September	**Review scientific method and metric system** **Motion** - Speed, velocity, and acceleration - Newton's Laws of Motion **Forces** - Measuring force - Balanced and unbalanced forces
October/November	**Density and Buoyancy** - Calculate density of various substances - Determine buoyant forces **Work, Energy, and Power** - Power, Work, Force, and Distance - Kinetic and Potential energy - Simple machines
January	**Electricity** - Electrical safety - Static electricity - Flowing electricity
/January	**Magnetism and Electricity** - Earth's magnetism - Connection between electricity and magnetism
February	**Electromagnetic Radiation and Light** - Waves and electromagnetic radiation - The electromagnetic spectrum, light and colors - Refraction and reflection
March/April	**Sound Waves** - General properties of waves - Frequency and amplitude
April/May	**Chemistry of Food and Respiration** - Food energy and the sun - Photosynthesis in plants - Respiration in animals - Human nutrition and respiration - Human health