Curriculum Map: 2023-2024 Teacher: Mr. Knigge Subject: Physical Science

MONTH	UNIT	Lessons or skills covered
August	Intro to Physical Science/Lab Skills	Students will be introduced to the scientific method, problem solving skills, using laboratory equipment, and lab safety.
September	Foundations of Chemistry	Classifying matter, physical properties, physical changes, chemical properties, chemical changes, the states of matter, changes in states of matter, behavior of gases
October And November	Properties of Matter	Discovering the parts of the atom, how atoms differ, using the periodic table, metals v nonmetals, valence electrons and their importance, chemical bonding (ionic v covalent)
December	Chemical Reactions & Equations	Understanding chemical reactions, types of chemical reactions, fundamentals of chemical equations, balancing chemical equations, law of conservation of mass
January And February	Motion & Forces	Position and motion, speed and velocity, graphing d vs t and s vs t, calculating speed, gravity and friction, Newton's 3 Law of Motion, work and power, simple machines, pressure and density of fluids
March	Energy & Matter	Forms of energy, energy transformation, energy resources, thermal energy, temperature, heat, thermal energy transfers
April	Waves	Wave properties, wave interactions, producing and detecting sound, using sound waves, electromagnetic radiation, the electromagnetic spectrum, light and color, reflection and mirrors
May	Electricity & Magnetism	Electric charge and forces, electric current, simple circuits (parallel v series), voltage, resistance, magnets, magnetic fields, making magnets with electric current, making electric current with magnets