

Unit	Topics Covered	NGSS Standards	Semester/Quarter
Introduction to Physics	What is physics? How does it affect and/or relate to us? -Simple Graphing -Measurement basics -Scientific method	SEPs	S1/Q1
Motion in 1D	-Speed, velocity, acceleration, simple kinematics	HS-PS2-1	S1/Q1
Newton's Laws/forces	-Forces and friction -Issac Newton's 3 laws of motion -Buoyancy	HS-PS2-1 HS-PS2-2	S1/Q1
Energy	-Work, kinetic, potential energy, mechanical advantage	HS-PS3-1	S1/Q2
Waves	-Sound, resonance, light reflection, refraction, diffraction, color perception (As time allows)	HS-PS4-1	S1/Q2
Introduction to Chemistry	What is Chemistry? How does it affect and/or relate to us? -Scientific method review		S2/Q3
Measurement	-Measurement -Metric conversions -Scientific Notation -Temperature Conversions		S2/Q3
Matter	-Properties of Matter -Chemical and Physical Changes -Elements and Compounds -Mixtures		S2/Q3

Structure of the atom	-Early Ideas about Matter -Elements and Symbols -Periodic Table -Atoms -Isotopes -Ions -Radioactive Decay	HS-PS1-8	S2/Q4
Electrons and the Periodic Table	-Light/Electromagnetic Radiation -Atomic Energy Levels -Sublevels/Orbitals -Electron Configuration -Periodic Table Trends (As time allows)	HS-PS1-1 HS-PS2-6 HS-PS4-1 HS-PS4-3 HS-PS4-4 HS-PS4-5	S2/Q4