

Rendezvous with a Comet

Standards Alignment

Science

PS1.A Structure and Properties of Matter	5-PS1-1	Use a model that describes that matter is made of particles too small to be seen.
	5-PS1-3	Make observations and measurements to identify materials based on their properties.
	6-PS1-4	Describe changes in particle motion in different states of matter.
	7-PS1-1	Recognize structures such as crystals.
	7-PS1-2	Identify the difference between physical properties and chemical properties.
PS2.A Forces and Motion	8-PS2-1	Use Newton’s third law to describe the thrust needed to power a rocket.
	8-PS2-2	Calculate the amount of force needed to achieve a change in motion.
PS2.B Types of Interactions	8-PS2-3	Use models that describe how electromagnetic forces can be repulsive.
	8-PS2-5	Use models that describe how electromagnetic fields can extend through space.
PS3.A Definitions of Energy	6-PS1-4	Use a model that describes how temperature is related to the energy of an atom or molecule.
	7-PS3-1	Use data to describe the relationship of force, mass, and speed/acceleration.
PS4.A Wave Properties	6-PS4-2	Use a model to describe that waves are reflected by certain materials.
PF4.B Electromagnetic Radiation	6-PS4-2	Use the wave model of light to explain how frequency and color are related.
ESS1.B Earth and the Solar System	8-ESS1-2	Analyze paths of objects orbiting the Sun.
	8-ESS1-3	Evaluate information to determine orbital measurements of objects in the solar system.
ESS2.A Earth Materials and Systems	5-ESS2-1	Analyze the geosphere system of the Earth.
	6-ESS2-1	Use a model that describes the cycling of Earth’s materials.
ESS2-C The Roles of Water in Earth’s Surface Processes	6-ESS2-5	Analyze and interpret data regarding temperature, pressure, humidity, and dew point.
LS1.D Information Processing	6-LS1-8	Use a model to describe how electromagnetic inputs are transmitted from the eye to the nerve cells in the brain.