

Grade 6 Science

Instruction in Grade 6 Science is centered on three units of instruction: Space Science, Energy & Motion, and Sound & Light.

By the end of 6th grade, students will...



1. Identify the relationships and patterns of celestial objects

- Create a solar system scrapbook where they will take an imaginary trip throughout our solar system, stopping at each planet and several other objects in our solar system.
- Identify our place in the universe and understand how vast distances in space are measured
- Investigate color, size, and temperature of stars
- Explain how gravity affects planetary motion
- Investigate Earth's Days, Years, and Seasons including earth, sun, moon relationship
- Conduct a lab on Earth's rotation and revolution



2. Describe energy transfers and predict the changes in the motion of objects

- Describe changes in motion and make appropriate calculations
- Investigate motion (newton's laws)
- Create a downhill racer and conduct a lab to measure average speed and examine the effects of forces on the motion of objects
- Identify forces that affect motion including gravity and friction
- Use tools to investigate mass vs. weight
- Calculate mechanical energy and examine the relationship between kinetic and potential
- Define work scientifically and calculate work, energy, and power



3. Demonstrate an understanding of sound and light

- Compare and contrast longitudinal and transverse waves
- Investigate wave properties
- Identify parts of the ear and understand the role each part plays in the interpretation of sound
- Make real world connections to devices that use sound technology
- Investigate radiant energy and identify the parts of the EM spectrum including real life connections and technologies of each
- Conduct a lab on the interactions of light