



Science

Grade 4

2nd Nine Weeks



This academic overview can be used to monitor and support your child's at-home learning progress.

Unit 3: Energy

Student Learning Targets

- I can describe differences between forms of energy.
- I can identify different forms of energy and provide examples of each.
- I can describe how insulators and conductors function in thermal and electrical energy.
- I can identify examples of insulators and conductors of thermal and electrical energy.

Questions to Check for Unit Understanding

- How can we observe forms of energy?
- How do everyday objects produce and use energy?
- How does energy travel?
- What are the different forms of energy?

Key Academic Vocabulary

- Energy: what is needed to do work or cause change
- Light: the type of energy that you can see with your eyes
- Sound: energy that travels through the air and can be heard by the ear
- Thermal: energy that makes things feel warm/hot
- Mechanical Energy: all the energy something has due to its movement and position
- Conductor: a material that allows heat or an electric current to flow through easily
- Insulator: a material that does not allow heat or an electric current to flow through easily

Unit 4: Earth's Materials & Processes

Student Learning Targets

- I can recognize and describe slow changes occurring on Earth's surface.
- I can identify causes of slow changes to the Earth's surface.
- I can classify different resources on Earth as either renewable or nonrenewable.
- I can identify differences between renewable and nonrenewable resources.
- I can describe what conservation is and how we can practice conservation of Earth's resources.

Questions to Check for Unit Understanding

- How do we responsibly use Earth's resources?
- What are renewable resources? Nonrenewal resources?
- How do the changes of the Earth's surface affect the planet?
- What are the agents of weathering?
- What are the agents of erosion?
- What are the effects of weathering, erosion, and deposition on the Earth's surface?

Key Academic Vocabulary

- Weathering: the breakdown of rocks into very small particles
- Erosion: the removal and movement of sediment from one place to another
- Deposition: the buildup of land by the accumulation of sediment and soil in a new location
- Renewable: Materials from Earth that can be replaced by nature within a short amount of time
- Nonrenewable: resources that cannot be replaced by natural processes within a lifetime