



# 4-Energy

## Standards

4-PS3-1, 4-PS3-2, 4-PS3-3, 4-PS3-4, 4-ESS3-1

## Resources

Mystery Science

## Competencies

- Explore the relationships between energy and objects, sound, light and heat. Successful students can explore the production, transference and transformation of energy. Students will explore the ways that energy and fuel are derived from natural sources and how use of that energy and fuel affect the environment.

## I can

- **I can** create a device that converts energy from one form to another.

## Vocab

**Content:** speed, energy, transfer, sound, light, heat, electric current, collide, convert, fuel, natural resources

**Academic:** evidence, observation, predict, describe



# 4-Waves

## Standards

4-PS4-1, 4-PS4-3

## Resources

Mystery Science

## Competencies

- Explore the relationships between energy and objects, sound, light and heat. Successful students can explore the production, transference and transformation of energy. Students will explore the ways that energy and fuel are derived from natural sources and how use of that energy and fuel affect the environment.

## I can

- **I can** use patterns to transfer information.

## Vocab

**Content:** waves, amplitude, wavelength, pattern

**Academic:** develop, describe, generate, transfer



# 4-Structure, Function, and Information Processing

## Standards

4-PS4-2, 4-LS1-1, 4-LS1-2

## Resources

Mystery Science

## Competencies

- Explore the relationships between energy and objects, sound, light and heat. Successful students can explore the production, transference and transformation of energy. Students will explore the ways that energy and fuel are derived from natural sources and how use of that energy and fuel affect the environment.

## I can

- **I can** describe how animals use their senses to receive information and respond to their environment.

## Vocab

**Content:** light, reflect, internal structures, external structures, reproduction, senses

**Academic:** model, construct, argument, function, model



# 4-Earth's Systems: Processes that Shape the Earth

## Standards

4-ESS1-1, 4-ESS2-1, 4-ESS2-2, 4-ESS3-2

## Resources

Mystery Science

## Competencies

- Explore the relationships between energy and objects, sound, light and heat. Successful students can explore the production, transference and transformation of energy. Students will explore the ways that energy and fuel are derived from natural sources and how use of that energy and fuel affect the environment.

## I can

- **I can** identify the characteristics of rock layers to explain the changes of earth over time.

## Vocab

**Content:** rock layers, landscape, weathering, erosion, vegetation

**Academic:** identify, analyze, interpret, describe, generate, compare



# 4-Science Practices

## Standards

## Resources

Mystery Science

## Competencies

### I can

- **I can** conduct an investigation to gather data to answer questions.
- **I can** use evidence to support ideas and solutions.
- **I can** use evidence to defend a scientific argument.
- **I can** create models to explain the world around us.

### Vocab

**Content:** investigation, engineering, design, evidence, phenomena

**Academic:** organize, construct, support, develop, represent, solution