

# Lesson 1

## WHAT IS ENERGY AND HOW DOES IT MOVE FROM PLACE TO PLACE?

### WORDS TO KNOW

energy  
work  
transfer

## THE BIG IDEA

- Energy is in moving objects, sound, light, heat, and electricity.
- Energy can transfer from place to place by moving objects.

### THINK ABOUT IT

How are different forms of energy such as light and heat different from each other?

## WHAT I NEED TO KNOW

Everything in the universe has **energy**. Energy is the ability to do **work**. Work is the movement of an object that involves a **transfer** of energy. It is when the energy moves from one object to another.

Energy is constantly transferred from one place to another. Here are examples of energy transfer.

- When a bowling ball knocks down bowling pins, energy transfers from the ball to the pins.
- When light travels from the sun to the earth, energy transfers from the sun to the earth.
- When electricity turns on a fan, energy is transferred from an electric current to the motor.
- When you speak to your teacher, energy transfers from your vocal cords to your teacher's ears.
- When food cooks on a stove, energy from the stove is transferred to the food.

### TURN AND TALK

What energy transformations were involved in your commute to school today?