

# Energy Cards, page 1

## MOTION ENERGY

Motion energy is the energy of a moving object. The faster an object moves, the more motion energy it has. A bike speeding down the street and ball flying through the air are examples of motion energy.

**Take turns sharing answers to these questions: What is the fastest thing you have ever seen? What is the slowest thing you have ever seen?**

## SOUND ENERGY

Sound energy is a type of energy that moves through particles of air or water in waves. Sound waves move like a slinky that has been pulled straight out and then released. When this energy reaches your eardrums, it causes the eardrums to vibrate and helps you to hear sound.

**Place your hand lightly on your throat and hum a tune. Describe to your group what you feel.**

## ELECTRICAL ENERGY

Electrical energy is energy carried by moving electrons (negatively charged particles in an atom). This energy can move through wires and other materials that conduct electricity, and it can move through air, as in the case of lightning.

**Share with your group an example of how electrical energy is moved from one place to another.**

## LIGHT ENERGY

Light energy is energy that travels in waves. Light waves move like a rope that has been lifted quickly off the floor and dropped back down. Light can travel through an area with no matter (a vacuum) or through a substance such as water.

**How could you use a flashlight to move light from one place to another? Think about this on your own, then discuss your ideas with your group.**

## HEAT ENERGY

Heat energy refers to the random motion or vibration of particles in a substance or object. As a substance or object heats up, its particles move faster. Even the particles in solids are moving—they just shake or vibrate in place.

**When 2 objects rub against each other, heat energy is often produced. Rub your hands together for 10 seconds. Share with your group members what you feel.**

## CHEMICAL ENERGY

Chemical energy is energy stored in the bonds of chemicals. Food and fuels are examples of chemical energy. In our bodies, this energy is used to help us grow, move, and think. Other things with chemical energy include batteries, corn, petroleum, and wood.

**What form of chemical energy is put into the tank of a car? Think about this on your own, then discuss your ideas with your group.**

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# Energy Cards, page 2



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