

Forms of Energy

Grade 4 • SCIENCE • Identifying light, heat, sound, and motion energy from clear everyday examples and describing how energy can be transferred. • Standards: 4-PS3-2

Read each situation carefully. Identify the main form of energy shown: light, heat, sound, or motion. Some questions will also ask you to describe how the energy is transferred.

1. A flashlight is turned on in a dark room. What is the main form of energy produced?
2. A drum makes a loud noise when you hit it with a stick. What is the main form of energy produced?
3. A soccer ball rolls across the grass after being kicked. What is the main form of energy the ball has?
4. A cup of hot soup warms your hands when you hold it. What is the main form of energy transferred to your hands?
5. A candle flame gives off warmth that you can feel when you place your hand near it. What is the main form of energy your hand receives?
6. A teacher claps her hands together to get the class's attention. The clapping transfers energy through the air to students' ears. What form of energy travels through the air?
7. A bicycle moves down a hill without anyone pedaling. What is the main form of energy the bicycle has as it travels?
8. The sun shines through a window and makes a bright spot on the floor. How is the energy from the sun transferred to the floor?
9. A metal spoon sitting in a pot of boiling water becomes too hot to touch. Describe how heat energy is transferred from the water to the spoon.
10. A girl throws a tennis ball to her friend across the playground. The ball travels through the air and her friend catches it. Describe how motion energy is transferred

during this activity.

Answer Key — Forms of Energy

For the teacher / parent. Do not distribute with the worksheet.

1. light
2. sound
3. motion
4. heat
5. heat
6. sound
7. motion
8. The energy travels as light from the sun through space and air to the floor.
9. Heat energy moves from the hot water directly into the metal spoon through contact.
10. The girl's moving arm transfers motion energy to the ball, the ball carries the energy through the air, and the energy is transferred to her friend's hands when caught.