

Name: _____

Content Check

Read and answer the questions below.

1. What is kinetic energy?

2. When does an object have kinetic energy?

3. A car is driving down the road and slows down to a stop when the driver applies the brakes. What happens to the kinetic energy that the car had while moving?

4. Describe a scenario in which kinetic energy is converted into electrical energy.

Content Check

Teacher Key

1. What is kinetic energy?

The energy of motion.

2. When does an object have kinetic energy?

When an object is moving and has mass.

3. A car is driving down the road and slows down to a stop when the driver applies the brakes. What happens to the kinetic energy that the car had while moving?

The kinetic energy is transferred to the environment as heat and sound energy.

4. Describe a scenario in which kinetic energy is converted into electrical energy.

Student answers will vary. Example answers:

- A water wheel that converts the kinetic energy of flowing water into electricity.
- A wind turbine that converts wind energy to electrical energy.