What is energy?

Lesson Review

Answer the following questions.

- 1. What is potential energy? _____
- When a baseball player is holding a bat, what kind of energy does the bat have? 2.
- **3.** When a baseball player is swinging a bat, what kind of energy does the bat have?
- Two people of the same mass are running a 5-k race. One person is running at a pace of 15 4. km/h, while the other is running at a pace of 12 km/h. Which runner has more kinetic energy? Why?
- Two people are walking to school at a rate of 5 km/h. One person weighs 600 newtons, and the 5. other weighs 555 newtons. Which person has more kinetic energy? Why? _____
- 6. What two factors determine an object's gravitational potential energy?
- 7. A 50-kg stone and a 70-kg stone are raised to the same height above the ground. Which has more gravitational potential energy? Why? _____

Skill Challenge

Skill: classifying

Each of the following items has potential energy or kinetic energy. Write PE for potential energy or KE for kinetic energy in the space provided.

 1.	water falling over a dam	 6.	racing sailboat
 2.	water in a cup	 7.	running dog
 3.	park bench	 8.	falling raindrop
 4.	moving car	 9.	parked car
 5.	rock on the ground	 10.	rolling ball