Name _____ Date _____ Class _____

**Key Concept Builder** LESSO

# *Forms of Energy*

**Key Concept** What are different forms of energy?

**Directions:** *Write the type of energy next to each clue. Some clues might involve more than one type of energy.*

**electrical** **mechanical** **nuclear** **radiant** **sound** **thermal**

_____ **1.** shooting a basketball

_____ **2.** the total of the potential energy and kinetic energy in an object or group of objects

_____ **3.** a phone ringing

_____ **4.** the energy of moving atoms

_____ **5.** Light is an example.

_____ **6.** energy given off by the Sun

_____ **7.** carried by an electric current

_____ **8.** Microwaves are an example.

_____ **9.** Heat is the movement of this.

_____ **10.** energy that is stored in the nucleus of an atom

_____ **11.** a radio playing

_____ **12.** an ocean wave

_____ **13.** a microwave heating food

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**Key Concept Buster**

**LESSON 1**

# *Forms of Energy*

**Key Concept** What are potential and kinetic energy?

**Directions:** *Circle the object in each pair that has the most kinetic energy.*

1. a moving car **OR** a parked car
2. a fast-moving soccer ball **OR** a slow-moving soccer ball
3. a 1,500-kg car traveling 20 m/s **OR** a 1,500-kg car traveling 30 m/s
4. a 1,500-kg car traveling 15 m/s **OR** a 2,000-kg car traveling 15 m/s

**Directions:** *Answer each question or respond to each statement on the lines provided.*

5. **Explain** how you decided which objects above to circle.

_____

_____

_____

_____

_____

6. What is the difference between kinetic energy and potential energy?

_____

_____

7. How could you increase an object's gravitational potential energy?

_____

_____

8. Two objects are at the same height, but one has more gravitational potential energy. What else can you tell about the two objects?

_____

_____

9. **Name** two types of actions that can result in an object storing elastic potential energy.

_____

_____

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