

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## Forms of Energy

**Directions:** *On each line, write the term from the word bank that correctly completes each sentence. Some terms will be used more than once.*

**electrical**      **energy**      **kinetic (2)**      **mechanical**      **nuclear**  
**potential (2)**      **work (2)**      **thermal**      **electromagnetic**

1. Energy due to motion is \_\_\_\_\_ energy.
2. The amount of \_\_\_\_\_ energy an object has depends on the object's speed and mass.
3. Energy that is stored in the nucleus of an atom is \_\_\_\_\_ energy.
4. The ability to cause change is \_\_\_\_\_.
5. \_\_\_\_\_ energy is stored energy.
6. Energy that is carried by an electric current is \_\_\_\_\_ energy.
7. Gravitational, elastic, and chemical are three forms of \_\_\_\_\_ energy.
8. The transfer of energy that occurs when a force is applied over a distance is \_\_\_\_\_.
9. \_\_\_\_\_ energy is the total of the kinetic energy and potential energy in an object or group of objects.
10. The energy of atoms and molecules in an object due to their motions is \_\_\_\_\_ energy.
11. Energy is the ability to do \_\_\_\_\_.
12. Energy that travels through space as waves is called \_\_\_\_\_ 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