JEA

e-SMARTkids

ANSWER KEY

How Energy Behaves

1. Chemical energy in a battery: *Potential*
   A moving baseball: *Kinetic*
   A raised weight: *Potential*

2. Students' descriptions of the difference between kinetic energy and potential energy will vary but should include at least this basic distinction: *Kinetic energy is the energy of motion, while potential energy is stored energy that has the potential to do work or cause motion.*

   Students may also list the forms of kinetic energy (electrical, radiant, thermal, motion, and sound energy) and the forms of potential energy (chemical, stored mechanical, nuclear, and gravitational energy).

3. Light bulbs produce radiant energy. Bulbs that give off heat, such as compact fluorescent and incandescent bulbs, also produce thermal energy. The sun produces both radiant energy and thermal energy.

4. False. Energy cannot be created from nothing.

5. Students' explanations of the Law of Conservation of Energy will vary but should include at least this concept: *Energy is never created or destroyed. It only changes from one place to another and from one form to another.*

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