

**Forms of Energy & Energy Transfer 2:** Choose the one best answer for each question.

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1. When you lift a book onto a high shelf, what energy change occurs?  
 A) Kinetic energy changes to potential energy     B) Potential energy changes to kinetic energy  
 C) Radiation changes to conduction     D) Heat changes to light
2. When a roller coaster moves down a steep hill, what happens to its energy?  
 A) Kinetic energy changes to potential energy     B) Potential energy changes to kinetic energy  
 C) Radiation changes to convection     D) Heat changes to sound only
3. Which example shows energy transformation from electrical energy to light energy?  
 A) A toaster heating bread     B) A battery-powered flashlight turning on  
 C) A fan spinning in the wind     D) A rock falling from a cliff
4. Which situation best demonstrates conduction?  
 A) The Sun warming the Earth     B) A spoon becoming hot in boiling water  
 C) Warm air rising in a room     D) Wind turning a turbine
5. Which example shows convection in the atmosphere?  
 A) Sunlight traveling through space     B) A metal pan heating on a stove  
 C) Warm air rising and forming clouds     D) A light bulb glowing
6. Which energy source is considered nonrenewable because it takes millions of years to form?  
 A) Wind     B) Solar  
 C) Coal     D) Hydropower
7. Which example shows radiant energy being absorbed?  
 A) A metal rod heating through contact     B) Water circulating in a pot  
 C) A dark shirt warming in sunlight     D) Ice cooling a drink
8. Which device primarily converts chemical energy into electrical energy?  
 A) Battery     B) Solar panel  
 C) Wind turbine     D) Electric heater
9. Why are renewable resources important for long-term energy use?  
 A) They never produce electricity     B) They can be replaced naturally over time  
 C) They take millions of years to form     D) They only work at night

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