

Forms of Energy & Energy Transfer 1: Choose the one best answer for each question.

1. Which example best shows kinetic energy?

- A) A book resting on a shelf B) A stretched rubber band
 C) A rolling soccer ball D) Water stored behind a dam

2. Which situation is an example of potential energy?

- A) A car moving down the road B) A ball held at the top of a hill
 C) A fan spinning quickly D) A river flowing downhill

3. What type of heat transfer occurs through direct contact?

- A) Radiation B) Convection
 C) Insulation D) Conduction

4. Which example describes convection?

- A) Feeling warmth from the Sun B) A metal spoon heating in soup
 C) Warm air rising and cool air sinking D) A flashlight shining across a room

5. Which type of heat transfer does not require matter?

- A) Conduction B) Radiation
 C) Convection D) Friction

6. Which resource is renewable?

- A) Coal B) Oil
 C) Wind D) Natural gas

7. Which resource is nonrenewable?

- A) Solar energy B) Hydropower
 C) Geothermal energy D) Petroleum

8. When friction slows a moving object, some kinetic energy changes into:

- A) Heat energy B) Sound only
 C) Light only D) Nothing

9. Which example shows energy transfer by radiation?

- A) Heat moving through a metal pan B) Warm water rising in a pot
 C) Sunlight warming your skin D) Ice melting in water

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