

# Conservation of Energy



Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Conservation of Energy

1. What method of heat transfer does the Sun use to heat the Earth's surface?

- A. conduction
- B. convection
- C. radiation



2. Which image correctly shows how the Sun heats the Earth's surface?



3. What method of heat transfer does the Earth's surface use to heat the Earth's atmosphere?

- A. conduction
- B. convection
- C. radiation



4. Which image correctly shows how the Earth's surface heats the Earth's atmosphere?



5. What are the energy transformations that take place in an electric pencil sharpener that is already plugged in?

- A. mechanical to electrical to thermal
- B. electrical to thermal to mechanical
- C. electrical to mechanical to thermal



6. Thermal energy always moves from a \_\_\_\_\_ temperature to a \_\_\_\_\_ temperature.

- F. colder, hotter
- G. hotter, colder
- H. thermal energy does not move

7. What will happen to the butter in the experiment?

- A. The butter on the spoon on the right will melt first.
- B. The butter on the spoon on the left will melt first.
- C. The butter on the spoons will melt at the same time.



10. A rancher heated a piece of metal to make a horseshoe to  $110^{\circ}\text{C}$  and put it into a bucket of water that was  $20^{\circ}\text{C}$ . What is the most likely temperature of the water and the horseshoe in 30 minutes?

- F. The water is  $20^{\circ}\text{C}$  and the horseshoe is  $110^{\circ}\text{C}$ .
- G. The water is  $65^{\circ}\text{C}$  and the horseshoe is  $65^{\circ}\text{C}$ .
- H. The water is  $90^{\circ}\text{C}$  and the horseshoe is  $50^{\circ}\text{C}$ .

11. Identify the energy transformations that are occurring through an electric fan that is already plugged in.

- A. electrical to mechanical to thermal
- B. electrical to thermal to mechanical
- C. mechanical to electrical to thermal



13. Which diagram shows the movement of thermal energy through the air?



14. A method of heat transfer that can occur even if no air is present is called \_\_\_\_\_.

- A. conduction
- B. radiation
- C. convection

8. Heated air over a cup of hot cocoa expands and rises and is replaced by cooler, denser air. What method of heat transfer is this?

- F. convection
- G. conduction
- H. radiation



9. What are the energy transformations that take place in your cell phone from the battery to the light being given off by the screen?

- A. electrical to chemical to radiant
- B. radiant to electrical to chemical
- C. chemical to electrical to radiant



12. An ice cream has been dropped on a hot sidewalk. How will the heat energy move?

- A. The coldness will move from the sidewalk to the ice cream.
- B. The coldness will move from the ice cream to the sidewalk.
- C. The heat will move from the sidewalk to the ice cream.



MODIFIED

# Physical Science Worksheet Of Conservation Of Energy 1

**A Gutmann**



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