

Conservation of Energy



Name: _____ Date: _____

Conservation of Energy

3. 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?



5. What are the energy transformations that take place in an electric phone charger 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.



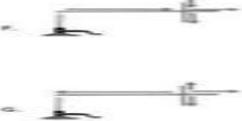
8. A scientist heated a piece of metal to make a horseshoe to 220°C and put it into a bucket of water that was 30°C. Water is true moved away from the water and the horseshoe in 20 minutes?

- F. The water is 200°C and the horseshoe is 20°C.
- G. The water is 205°C and the horseshoe is 205°C.
- H. The water is 30°C and the horseshoe is 30°C.



9. 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



10. Which diagram shows the movement of thermal energy through the metal?



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

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



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?



6. Heated air over a cold air mass expands and rises and is replaced by cooler, denser air. What method of heat transfer is this?

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



8. What are the energy transformations that take place in your car phone from the Sun 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

Answers Physical Science Worksheet Conservation Of Energy 1

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