

Conservation of Energy



Name: _____ Date: _____

Conservation of Energy

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

- conduction
- convection
- 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?

- conduction
- convection
- 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?

- mechanical to electrical to thermal
- electrical to thermal to mechanical
- electrical to mechanical to thermal



6. Thermal energy always moves from a _____ temperature to a _____ temperature.

- colder, hotter
- hotter, colder
- thermal energy does not move.

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

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



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 that?

- convection
- conduction
- 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?

- electrical to chemical to radiant
- radiant to electrical to chemical
- chemical to electrical to radiant



10. A rancher heated a piece of metal to make a horseshoe to 120°C and put it in a bucket of water that was 20°C . What is the most likely temperature of the water and the horseshoe in 30 minutes?

- The water is 20°C and the horseshoe is 120°C .
- The water is 85°C and the horseshoe is 85°C .
- The water is 90°C and the horseshoe is 30°C .

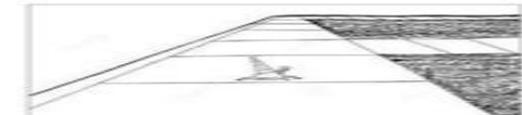
11. Identify the energy transformations that are occurring through an electric fan that is already plugged in.

- electrical to mechanical to thermal
- electrical to thermal to mechanical
- mechanical to electrical to thermal



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

- The sidewalk will move from the sidewalk to the ice cream.
- The sidewalk will move from the ice cream to the sidewalk.
- The heat will move from the sidewalk to the ice cream.



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



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

- conduction
- radiation
- convection



Physics Conservation Of Energy Worksheet Solutions

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