

Bill Nye "Heat" Video Worksheet

1. Heat is a form of \_\_\_\_\_, and can do \_\_\_\_\_.
2. Heat is transferred through the universe in three different ways?
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
3. The invisible heat transferred from the Sun is called \_\_\_\_\_.
4. The heat transfer that occurs when warm air rises is called \_\_\_\_\_ (for example, the steam of boiling water cooking food).
5. \_\_\_\_\_ is the direct transfer of heat from one object to another (for example, the pancake cooking on the griddle).
6. Match the scenario with the correct term: convection, conduction, and radiation.
  - a. Hot air moving up is an example of \_\_\_\_\_.
  - b. A microwave oven uses \_\_\_\_\_ to heat foods.
  - c. A metal spoon heated by hot soup is an example of \_\_\_\_\_.
7. Predict: Which sugar cube will be dropped into the water first? Why?
8. Even cold materials radiate some \_\_\_\_\_.
9. All molecules have \_\_\_\_\_ More molecules= \_\_\_\_\_ heat energy.
10. Which has more heat energy—the ice sculpture or a lit fire match?
11. An object with more molecules has \_\_\_\_\_ energy than an object with fewer molecules.
12. Cooler water will \_\_\_\_\_, while warmer water will \_\_\_\_\_.
13. A lava lamp is an example of which type of heat transfer? \_\_\_\_\_.
14. An infrared camera is sensitive to \_\_\_\_\_.
15. What kind of transfer happens in a vacuum? \_\_\_\_\_.
16. Heat and light travel in \_\_\_\_\_. Waves travel at a speed of \_\_\_\_\_ km/sec.
17. Heat is measured by using \_\_\_\_\_ or \_\_\_\_\_.
18. Walls, floors, and ceilings \_\_\_\_\_ heat.
19. Molecules in cold things move more \_\_\_\_\_ than in hot things.
20. Moving molecules causes objects to \_\_\_\_\_ (think: the dryer).

\*\*\*BONUS\*\*\*  
 Why is air a poor conductor of heat? (3) Give an example of natural convection.

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