

Bill Nye "Heat" Video Worksheet

1. Heat is a form of _____ and can be _____.
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 off boiling water cooking food).
5. _____ is the direct transfer of heat from one object to another (for example, the pot of water cooking on the grill).
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 _____ infrared heating.
 - c. A metal spoon heated by hot soup is an example of _____.
7. Predict: Which sugar cube will be dissolved into the water first? Why?
8. Even cold materials include some _____.
9. All molecules have _____, more molecules _____ heat energy.
10. Which has more heat energy—the ice sculpture or a lighted 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 solid things move more _____ than in hot things.
20. Moving molecules causes objects to _____ (like the dryer).

==ppp==

Why is air a poor conductor of heat? [2] Give an example of natural convection.

Section 3 Reinforcement Using Heat Answers

Michael Hoelscher



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