

Name _____ Period ____ Date _____

Chapters 17 Review

1. What is heat?

2. Temperature is the measure of the average _____ of the molecules.

3. Heat transfer is the movement of heat energy from a _____ to a _____.

4. The three forms of heat transfer are _____, _____, and _____.

5. An _____ is a material that does **not** conduct heat energy easily.

6. A _____ is a material that conducts heat energy easily.

Define the three types of heat transfer:

7.

8.

9.

For the following, please label the type of heat transfer that is happening, OR the type of heat transfer that is nearly being stopped. Conduction, Convection, Radiation

_____ 10. A very shiny material is reflecting the heat light back into the warm contents.

_____ 11. The energy from the sun is making my dark car get hot quickly.

_____ 12. I wear oven mitts to protect my hands while taking cake from the oven.

_____ 13. The warm air rises over the land and moves out over the ocean, where it is cooled and drops.

This causes wind to blow toward the shore on most days.

_____ 14. I can put a sleeve on my hot coffee cup to keep the heat in and from getting my hands too hot.

_____ 15. When I put a lid on my coffee, this keeps the heat transfer to the air from happening and the cold air from replacing the hot air.

16. A calorie is the amount of energy required to raise _____ of water by 1 degree.

17. Water boils at _____ degrees Celsius and freezes at _____ degrees.

18. The _____ of a material is the amount of energy required to raise 1 gram of the material by one degree Celsius.

19. The name of the device used to measure the heat content of food is called a _____.

20. How is a food Calorie is different from a heat calorie?

21. Most materials will expand when heated. This is called _____.

22. When two metals are bonded together, they will often expand at different rates. This causes bending in this material which is called a _____.

23. Many roads and bridges have something built in that prevents damage because of thermal expansion and contraction. This built-in thing is called an _____.

24. A device in the home that often uses a coiled strip to control the temperature in the house is called a _____.