Chapter 6: Thermal Energy

Name _____ Period_____ Date_____

Directions: Beginning on page 164, read and complete the following questions.

Section 2: Transferring Thermal Energy

1. Define conduction.

2. Complete this statement: Thermal energy is transferred _____, not by movement of matter.

3. Why does heat move faster by conduction in solid than in gases?

4. What are the best conductors of heat?

5. Define convection.

6. Describe convection current.

7. Define radiation.

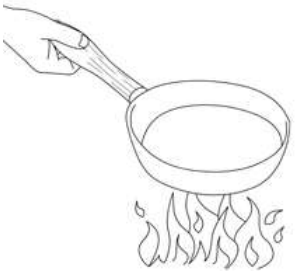
8. What is radiant energy?

9. Define insulator.

10. Provide an example of a good insulator and a poor insulator.

Check you understanding.

Directions: Identify each of the statements as true or false. If identified as false, change the statement to make it true.



_____1. The metal handle on a pan gets hot because of convection.

_____2. Particles of matter are in constant random motion.

_____3. The down feathers stuffed inside of a coat are good conductors of heat.

_____4. As particles heat up, they move faster and spread apart.

_____5. A metal can that sets in the sun gets hot because of conduction.

_____6. A good insulator is also a good conductor of heat and energy.

_____7. The end of a curling iron gets hot because of radiant heat energy.