

Name _____

Thermal Energy – Pre-Post Test

Directions: Carefully read each question. Circle the correct answer.

1. Thermal energy always moves from hot to cold.
 - A. True
 - B. False
2. Which has more thermal energy?
 - A. Teaspoon of boiling water
 - B. Bowl of boiling water
 - C. Bathtub of boiling water
3. Which has a higher temperature?
 - A. Teaspoon of boiling water
 - B. Bowl of boiling water
 - C. Bathtub of boiling water
 - D. They are all the same temperature
4. Which is a unit of temperature?
 - A. Celsius
 - B. Joule
 - C. Calorie
5. An aluminum plate and a plastic plate have been in the freezer all night. When you remove them the next morning,
 - A. The plates have the same temperature.
 - B. The plastic plate has a higher temperature.
 - C. The plastic plate has a lower temperature.
 - D. The aluminum plate has a lower temperature.
6. You put a metal spoon and a wooden spoon into a pot of boiling water. One will become too hot to touch. Why?
 - A. Metals conduct heat better than wood.
 - B. Wood conducts heat better than metals.
 - C. Metals are insulators.
 - D. Wood is more dense than metal.

7. Why do we wear sweaters in cold weather?
- A. To keep the cold in.
 - B. To generate heat.
 - C. To keep heat in.
 - D. All of the above.
8. Which of the following is NOT a thermal insulator:
- A. Carpet
 - B. Wool
 - C. Jacket
 - D. Metal pan

9. Draw an arrow to indicate the direction of thermal energy transfer.

House on a Summer Day



10. Draw an arrow to indicate the direction of thermal energy transfer.

Cup of Hot Chocolate

