Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_

**Heat Transfer Quiz**

Name the type of heat transfer that is described in the following questions.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1. The transfer of heat across a distance by electromagnetic waves.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. When the handle of a spoon you are using to stir hot chocolate becomes hot.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. When heat is transferred from an object that is in direct contact with another object.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. When you are sunbathing and your skin feels warm.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5. When the movement of a liquid or a gas transfers heat.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. When you warm your hands sitting by a campfire.

**True or False**

\_\_\_\_\_ 7. Substances with strong intermolecular forces are usually solids at room temperature.

\_\_\_\_\_ 8. Heat travels fastest in gasses by conduction.

\_\_\_\_\_ 9. Objects with a high specific heat up quickly and cool down slowly.

\_\_\_\_\_ 10. Gasses transmit most radiant energy allowing it to pass through.

Tell which object would have a faster rate of heat transfer: PSYW

 11. Window A which is 12.3 cm x 11.3 cm or Window B which is 18.6 cm x 6.9 cm?

 12. Half-inch thick Plywood or three-quarter inch plywood?

 13. Silver with a k-value of 427 W/m/˚C or gold with a k-value of 315 W/m/˚C?

 14. A window in the classroom with a room temperature of 74˚F when it is 49˚F outside or when it is 99.2˚F outside?