

## Heat Transfer Team Review Quiz

### Team Members \_\_\_\_\_

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\*\*Get all four questions correct and earn an extra point for your team!!

1. T or F? Heat moves from matter at a lower temperature to matter at a higher temperature.
2. Heat can move through a material without the material itself moving. This type of movement is called **conduction**.

Which of the following is an example of conduction?

- a. If you stand in the path of radiation, you can feel the heat but if you move out of the path you will feel cold.
- b. A metal spoon is placed in a hot drink and the handle becomes warm.
- c. Water at the bottom of a pot takes in heat from the stove burner and moves upwards taking the heat with it.

3. Heat can also move through a material by actually moving the material. This type of movement is called **convection**. Heat usually moves through liquids and gases by convection.

Which of the following is an example of convection?

- a. If you stand in the path of radiation, you can feel the heat but if you move out of the path you will feel cold.
- b. A metal spoon is placed in a hot drink and the handle becomes warm.
- c. Water at the bottom of a pot takes in heat from the stove burner and moves upwards taking the heat with it.

4. The third way heat moves is pure energy that moves through empty space. Light, x-rays, and microwaves, as well as heat, move through space as **radiation**.

Which of the following is an example of radiation?

- a. If you stand in the path of radiation, you can feel the heat but if you move out of the path you will feel cold.
- b. A metal spoon is placed in a hot drink and the handle becomes warm.
- c. Water at the bottom of a pot takes in heat from the stove burner and moves upwards taking the heat with it.