

Name \_\_\_\_\_ Date \_\_\_\_\_ PD \_\_\_\_\_

## HW Heat Transfer

1. Define Conduction.

\_\_\_\_\_

2. Define Radiation.

\_\_\_\_\_

3. Define Convection.

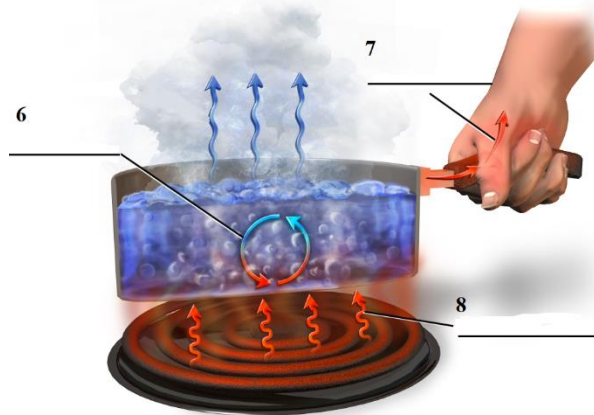
\_\_\_\_\_

4. The direction of heat transfer is always from the object with a \_\_\_\_\_ temperature to a \_\_\_\_\_ temperature.

5. Cold air sinks because it is \_\_\_\_\_ dense. Warm air rises because it is \_\_\_\_\_ dense.

**Directions:** For # 6 – 8, label each type of heat transfer shown in the picture.

### Mechanisms of Heat Transfer



**Directions:** Circle the correct type of heat transfer that explains the example.

9. Warmth from a fireplace circulating throughout a house. (*Radiation / Convection / Conduction*)

10. Burning your hand on a hot pan. (*Radiation / Convection / Conduction*)