

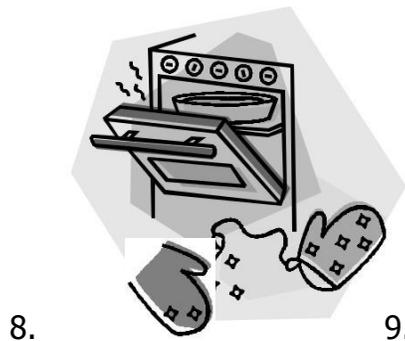
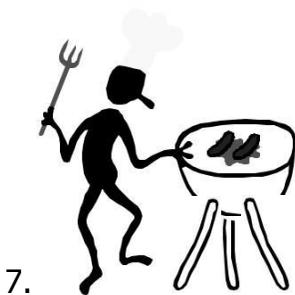
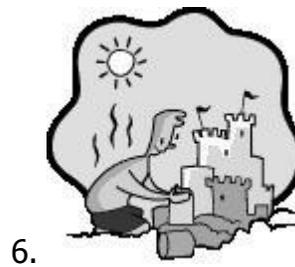
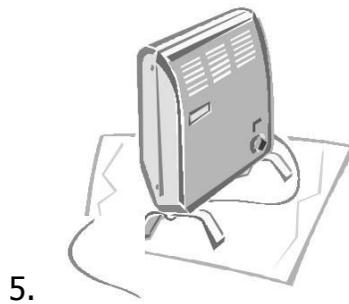
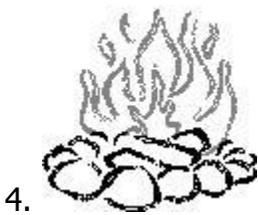
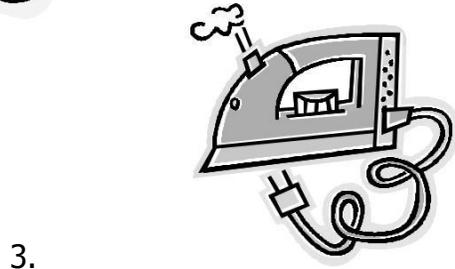
**Worksheet: Methods of Heat Transfer
(conduction, convection, and radiation)**

Define conduction: transfer of heat by direct contact between materials

Define convection: transfer of heat by movement of large volumes of fluids moving to balance average KE (temperature)... hot rise, cool falls

Define radiation: transfer of heat not requiring a medium to move it

Identify the method of heat transfer that takes place in each illustration. Some illustrations may show more than one form of heat transfer.



In each of the following situations, identify the method of heat transfer taking place (conduction, convection, radiation). More than one process may be occurring.

1. Hot coffee is stirred with a spoon, the spoon gets hot due to _____.
2. A chair is placed several feet from a fire in a fireplace. The fireplace has a glass screen. The side of the chair facing the fireplace gets warm because of _____.
3. Near the ceiling of a room the air is warmer. The warm air rises because of _____.
4. A certain type of stainless steel cookware has a layer of copper applied to the bottom to help it heat evenly. The copper transfers heat to the pan by _____.
5. In a swimming pool, the water near the surface is slightly warmer. The warm water rises because of _____.
6. A house burns down. On the house across the street, all of the vinyl siding is twisted and warped by the heat. The heat was transferred across the street by _____.
7. Warm air over the beach rises while cooler dense air from the ocean rushes in due to _____.
8. A fireman feels a door and it is hot from the fire on the other side due to _____.
9. The cause of weather systems on earth is _____.
10. You are in the top bunk of a bunk bed and you want to turn the air conditioner on while your friend on the bottom bunk is fine is caused by _____.