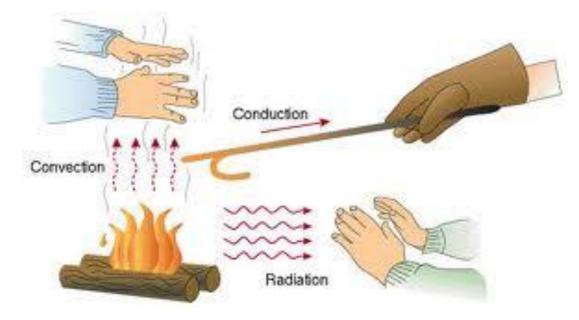
Heat Transfer



Heat Transfer

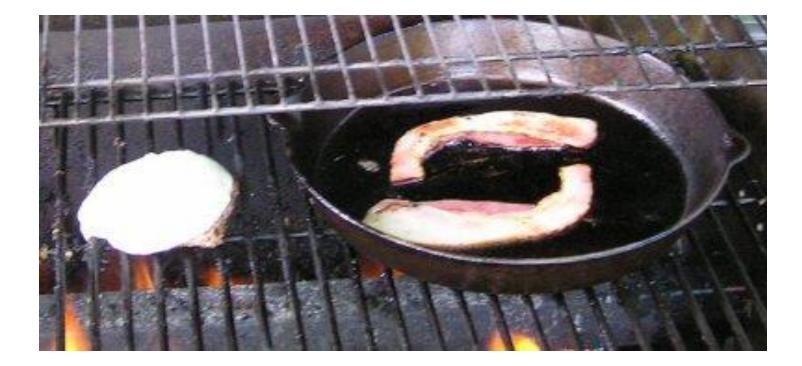
- The <u>movement</u> of thermal energy from a <u>hot</u> to <u>cold</u> substance.
- There are 3 types of heat transfer:



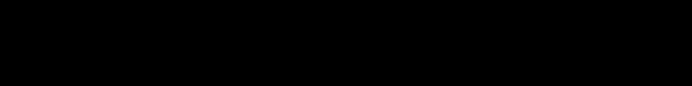


1. Conduction

- The transfer of heat through direct contact.
 - <u>Metals</u> conduct heat well.
 - For example, the handle of an iron skillet will become hot when the pan is held over a flame because the iron conducts the heat through the pan to the handle.

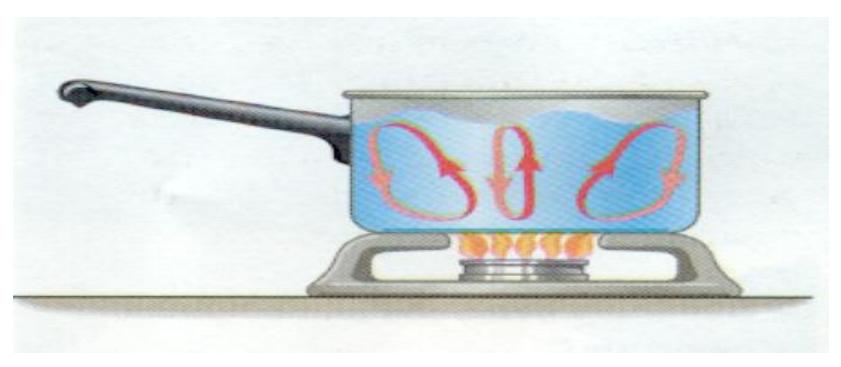






2. Convection

- The transfer of heat through a gas or liquid in a current.
 - Boiling a pot of water is an example of convection.
 - The heat rises while the cool liquid sinks. This forms a current in the liquid.



3. Radiation

- The transfer of heat <u>without</u> direct contact (radiation can travel through <u>space</u> or a vacuum).
 - The sun transfers heat 93 million miles to the Earth through empty space.





Insulator

