

Chapter 6: Temperature and Heat

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Heat

- Form of energy
- Heat: high temp \rightarrow lower temp
- Transfer of Heat:

Conduction

- Transf. by direct contact
- Good conductors: most metals
- Bad conductors aka insulator: Plastic, Wood, Rubber, etc.

Convection

- Transf. in Liquids and Gases
- Hot lighter than Cold
- Convection Current

Radiation

- Transf. by Electromagnetic Waves
- in Vacuum

Temperature

- Degree of hotness

Clinical Thermometer

- Used to measure temperature of human body
- Has mercury
 - High boiling point
 - Low melting point
- Long-narrow tube
- Human body temp - 37°C
- Human body temp ranges - 35°C - 42°C
- Units: $^{\circ}\text{K}$ (Kelvin) & $^{\circ}\text{F}$ (Fahrenheit)
- Precautions:
 - Wash the therm. before and after use
 - Jerk to bring temp to below 36°C