

Thermal Energy

- 6th grade science
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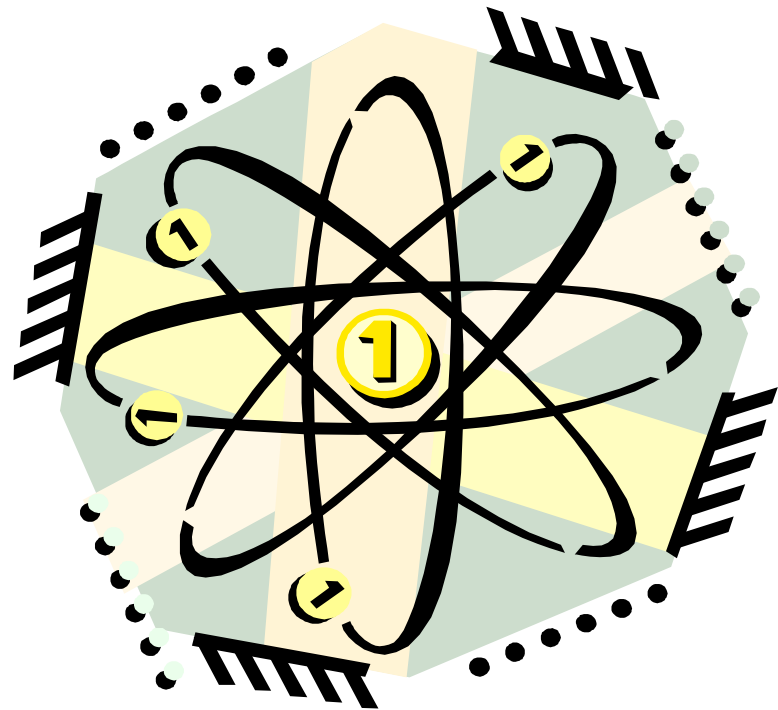
TEMPERATURE



- Measure of kinetic energy of molecules
- Thermometer
- Fahrenheit
- Celsius
- Kelvin

Thermal Energy

- Measurement related to the quantity of molecules.



HEAT

- Thermal energy always moves from warmer to cooler objects.
- Heat is the result of molecules vibrating quickly.
- Heat is moving energy.

Conduction



- The transfer of heat by direct contact between objects or particles.

Radiation

- Heat transferred through space.
- EXAMPLE: The sun's rays causing a sunburn.



Convection



- Heat transferred by the movement of molecules within a substance.
- Movement occurs from warmer areas to cooler areas.

Convection Current

- The movement of a substance that is caused by differences in temperature and density.
- EXAMPLES: wind

water

- NATURE WANTS
EVERYTHING TO BALANCE !



Conductors

- Conductors are materials that transfer heat easily.
- Examples: metals like copper and gold



Insulators

- An insulator is a material that does not transfer heat easily.
- Examples:
- liquids and gases
- A jacket

