

# Vocabulary

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*Study the vocabulary words and definitions below.*

**Celsius** ..... the SI temperature scale with the boiling point of water at 100°, the freezing point of water at 0°, and body temperature at 37°

**conduction** ..... the movement of heat through a solid substance

**conductor** ..... an object that heats up easily; allows electricity to pass through it

**contract** ..... to make smaller

**convection** ..... the movement of heat through fluids, either a liquid or a gas

**convection current** ..... an up and down movement of air that works to equalize the temperature between two areas

**expand** ..... to increase in size

**Fahrenheit** ..... a temperature scale with the boiling point of water at 212°, the freezing point at 32°, and normal body temperature at 98.6°

# Vocabulary

**first law of thermodynamics** ..... this law states that the amount of work done, plus the amount of heat produced, is equal to the energy used; as energy is changed, some of it will become heat

**friction** ..... a type of resistance to movement caused when one surface touches another surface

**heat** ..... the form of energy that causes a random motion of molecules or atoms

**insulator** ..... poor conductor of heat; it prevents temperature change by keeping heat from moving

**radiation** ..... the movement of energy as a wave; specifically, the way heat moves through a vacuum

**temperature** ..... a measure of the amount of heat in a substance; a measure of how fast molecules are moving in their random motion

**thermometer** ..... an instrument that measures temperature

**vibrate** ..... to move back and forth very quickly