**Weather Vocabulary #2**

**data** - information (plural; singular = datum)

**hemisphere** - half of a sphere; the Earth has four hemispheres: northern, southern, eastern, western

**equator** - Imaginary, horizontal line around the middle of the Earth

**latitude** - the distance north or south of the Equator

**longitude** - the distance west or east of the Prime Meridian

**angle of incidence** - angle the sunlight hits the Earth (more intensity = warmer); sometimes called angle of insolation

**direct sunlight** - Sun rays that strike the Earth in a straight line (most direct, intense rays = Equator)

**indirect sunlight** - Sun rays that strike the Earth at an angle (most indirect, least intense rays = north and south pole

**radiation** - transfer of thermal energy by electromagnetic waves through places with or without matter (examples: light bulb, campfire, fireplace, microwave, Sunlight traveling through space)

**convection** - transfer of thermal energy by liquids or gases (examples by liquids: hotter at surface of a swimming pool, cup of soup, or boiling water on stove), (examples by gases: hot air balloon, lower floors being cooler than top floors in a building).

**convection current** - a continual cycle of heat rising, cooling, sinking, and replacing rising heat. (examples by liquids: gulf stream, El Nino/La Nina), (examples by gases: jet stream, sea breeze, land breeze)

**conduction** - transfer of thermal energy between things that are touching
(examples of conduction: touching the handle of a hot metal pot, electrical circuit, ice in water), (examples of insulation: rubber surrounding electrical wires, insulation inside walls).