

Energy - the ability to move something

Mechanical Energy - a combination of potential and kinetic energy.

Absorb- to take in

Sound Energy- energy produced by vibrations

Chemical Energy - energy that is stored in food or fuel

Heat Energy - energy of moving particles

Conductor - a material that allows heat energy or electricity to pass through it.

Light Energy - energy that travels through waves that we can see.

Insulator- material that does NOT allow heat energy or electricity to pass through it.

Electrical energy - that is produced when electrons move from one place to another place.

Closed Circuit - a complete path of conductors that an electric current can flow through

- Anything that gives off light also gives off heat.
- Light travels in a straight line.
- Light can be reflected (bounced back), refracted (bent), or absorbed.
- Heat can be produced when objects rub together.
- Sound is produced when objects vibrate.
- Sound travels through waves by vibrating the air.
- We know if something has energy because it is in motion or is changing in some way.
- Water and air are renewable sources of energy.
- Radiant energy from the sun heats objects and when the sun is not present heat may be lost.
- Heat flows from a warmer object to a cooler object.
- Metals allow energy to flow thus making them good conductors of heat and electrical energy.
- Electrically charged object can attract an uncharged object and can either attract or repel another charged object without any contact between them (like charges repel, opposite charges attract.)
- Electricity needs a closed circuit or complete loop in order for the electrons to travel.