

# 4 different forms of ENERGY

**Heat/Thermal**  
(the fast motion of particles in matter)



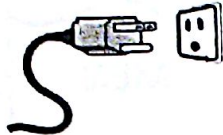
**Light**  
(travels in a straight line)



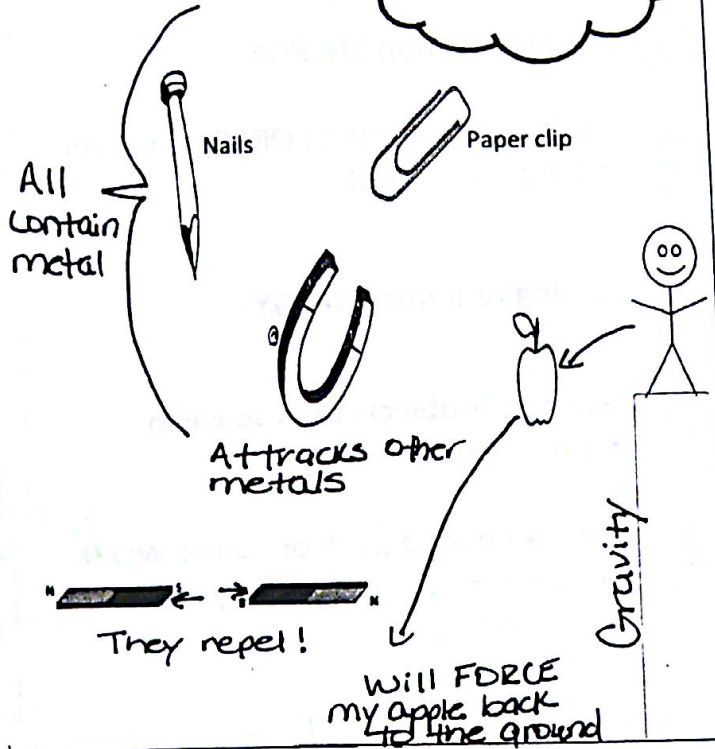
**Sound**  
(it travels or moves as vibrations through all forms of matter)



**Electrical**  
The presence and flow of an electric charge



use **FORCE!!**



## Condensation

The state of water when it changes from a gas into a liquid.

## The Water Cycle

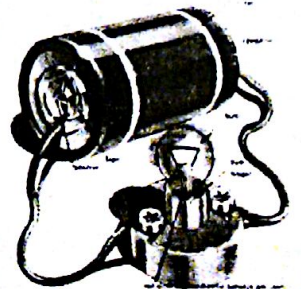
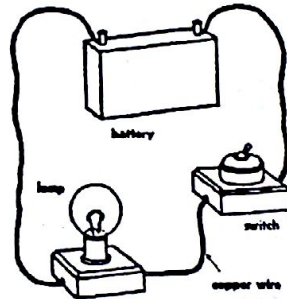
**Evaporation**

The state of water when it is heated and rises into the air.

**Precipitation**

The state of water when it is falling down from the sky.

## Circuits



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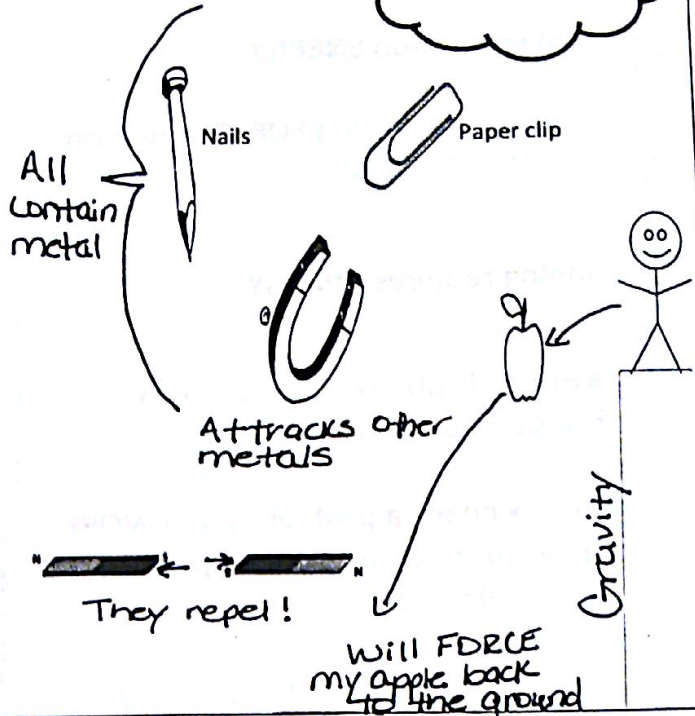


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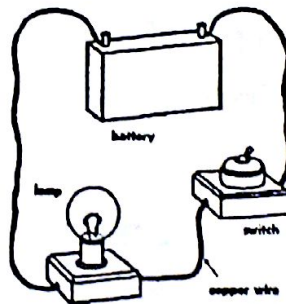
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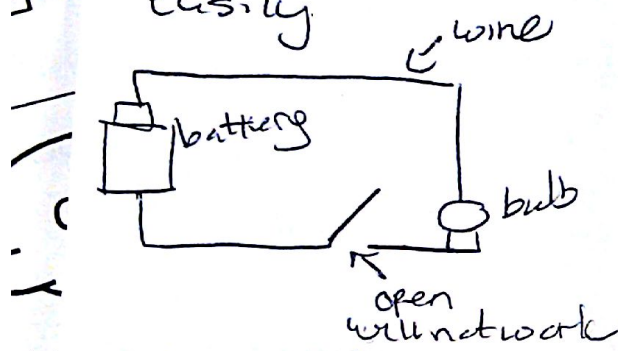
## Circuits





Closed circuit - energy flows through easily to work

Open - energy can not be transferred as easily



### Flow of Energy



$\sim$  = ~~wire~~ metal wire is the conductor

$\sim$  = rubber is the insulator  
main source of energy is the battery

Systems - All parts that work together to work function

Conductors allow energy to flow through easily. ex. Metals

Insulator - do not allow energy to transfer easily. ex. rubber, plastic

Friction - a force that opposes or stops motion  
ex. smooth + rough surfaces

Gravity - a force that pulls down on object

Position - location of an object

Direction - the course in which an object moves

The Weather - the condition or state of the atmosphere

Water Cycle + weather helps predict what we will wear on a daily basis

Meteorologist studies the weather.

Role of the Sun? Drives the water cycle. It keeps it moving.

Renewable resource it never runs out  
If there was no water cycle we would have a drought - very dry areas w/ no water

### Water Cycle

Evaporation - water vapor moving into the air

Condensation - water vapor changes to liquid

Precipitation - water falls to the Earth, rain, snow, sleet, hail

Run-off - when water hits the ground + is soaked up.

Transpiration - Evaporation from plants  
when water vapor gets cold + condenses

hermal  
otion c<sup>o</sup> particles

(travels in a  
straight line)

All  
contain

# Forms of Energy

**Energy**  
The ability to  
do work or  
cause change

- Sound - made through vibrations waves
- Kinetic - energy moving
- Potential - energy stored
- Heat - energy of moving particles
- Light - energy that travels in a straight line
- Electrical - Charges that flow from one place to another

Illustrate H<sub>2</sub>O Cycle

Light  
Heat

S Mechanical  
Potential / Kinetic

Sound

I Electrical

Illustrate weather  
Symbols