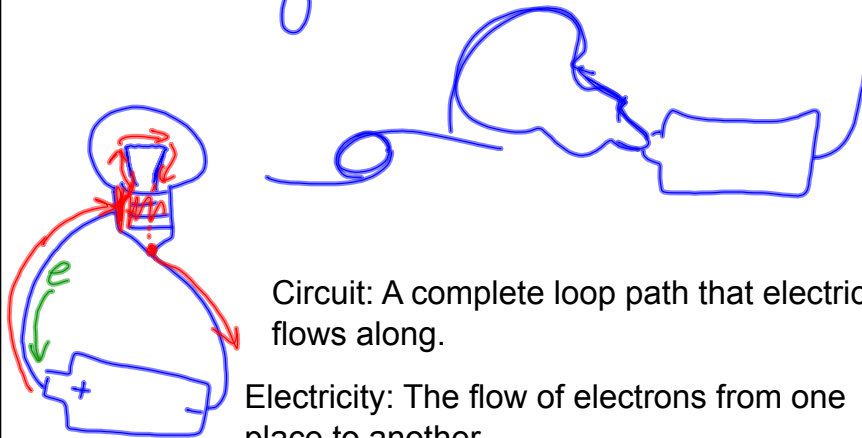


2 wires  
1 battery  
1 light bulb



Circuit: A complete loop path that electricity flows along.

Electricity: The flow of electrons from one place to another.

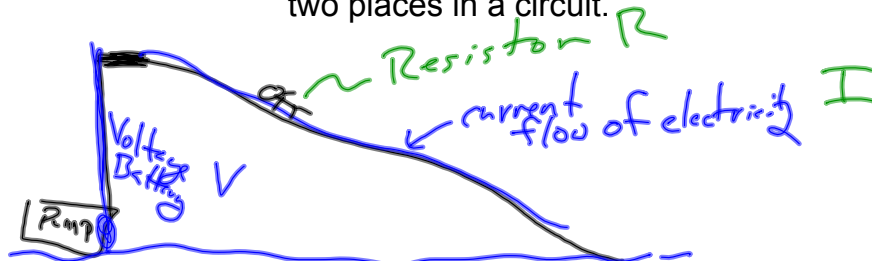
a form of kinetic energy



Current: The flow of positive electric charge  
(water flowing down a slide in a water park)

Battery = water Pump

Voltage: The difference in charge between two places in a circuit.



Resistance: Slows the flow of electric charge.

$$R \uparrow \Rightarrow I \downarrow$$

$$V \uparrow \Rightarrow I \uparrow$$

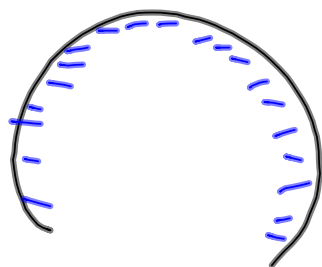
current

$$I = \frac{V}{R}$$

voltage/battery input  
Resistance

} Ohm's Law

# Electrostatics



Electrons wanted to move to locations where there were fewer electrons

Opposites attract  
like charges repel

## Big Ideas

Electrons do not like to be near other electrons.

They do like to be near Protons