Electricity Unit Notes – 4/2/2012

Current- measure of flow of electrons (amps)

Electrons- negative particles that create a current

Open Circuit- *disconnected* circuit (no flow)

Closed Circuit- *connected* circuit (flow)

DC (Direct Current)- current in *only one* direction (battery)

AC (Alternating Current)- changes direction

Series Circuit- circuit in a *single* pathway

Parallel Circuit- circuit with *multiple* pathways

Power- P= IE ----> Joule’s Law

 I – Current (A)

 E – Voltage (V)

Voltage- electrical potential, measured in volts

Joules Law- calculates power

Ohm’s Law- calculates the flow of electric current (flow of electrons)

I = E/R

Unit = Amps (A)

Resistance = Ω (Ohm’s)

Units:

I = Current (A)

E = Voltage (V)

R = Resistance (Ω)