

GAM160-COMP140 Creative Computing Project



Register Attendance



Figure 1: Attendance monitoring is in place. It is your responsability to ensure that you have signed yourself in.



Learning Outcomes

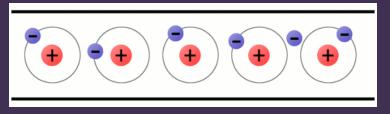
After this session you will be able to:

- Exlain the difference between current, voltage, and resistance
- Predict the characteristics of basic circuits using simple formulas
- Choose components based on their purpose and characteristics



What is current electricity?

(the stuff that makes our gadgets tick)

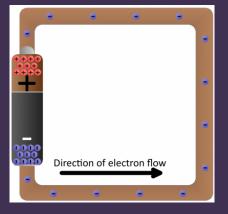


source:https://learn.sparkfun.com/tutorials/what-is-electricity/allrmar

- The flow of electrons through
- a closed circuit (wire, components, etc)
- Induced by an electric field (battery)



Battery Example



source:https://learn.sparkfun.com/tutorials/what-is-electricity/allrmar

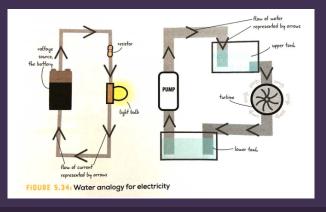


Basic characteristics

- Voltage (V) The relative level of electrical energy between any two points in a circuit. Voltage is measured in volts.
- Current (I) The amount of electrical energy passing through any point in a circui. Current is measured in amps
- Resistence (R) The amount that any component in the circuit resists the flow of current. Resistence is measured in ohms



Water Analogy



Hagan, J. (2017). Learn Electronics with Arduino. Maker Media, Inc.



Ohms Law

I = V / R