

Understanding Circuits and Circuit Diagrams

December 6, 2017 11:49 AM

- = Circuits are closed paths where e^- can flow
- if a circuit is not complete (open) e^- cannot flow
- circuits have 4 major parts

- (1) wires (connect circuit components)
- (2) source (battery, wall outlet etc)
- unnecessary * (3) switch (completes the path)
- (4) electrical load (use the electricity)

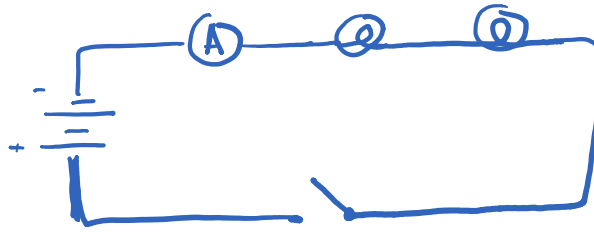
- Circuits are categorized into two major types
 - (1) series circuits (only 1 path for e^- to follow)
 - (2) parallel circuits (multiple paths for e^- to follow)

circuit diagrams symbols

	cells		capacitor
	battery		transistors
	wires		
	bulb		
	closed switch	} switches	
	open switch		
	resistor		
	motor		
	voltmeter		
	ammeter		

Circuit diagrams

- ① Draw a circuit diagram with one battery connected to two light bulbs in series and a switch to control the entire circuit



- ② Draw a circuit diagram with 2 batteries connected in series that power 3 light bulbs 2 of which are in series and the third that is in parallel. Have separate switches for both sets of light bulbs

