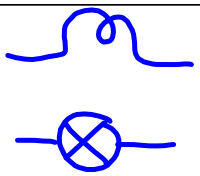
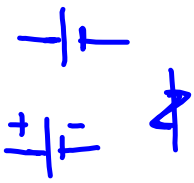
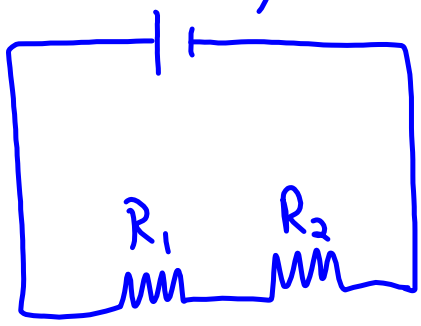
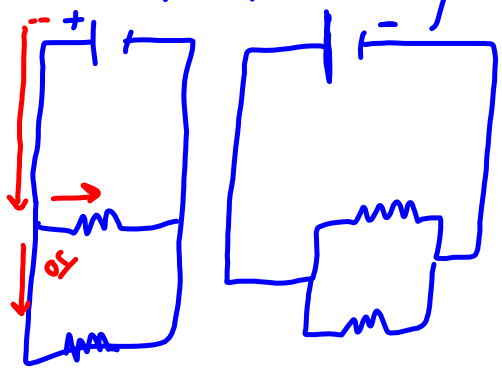
Symbols

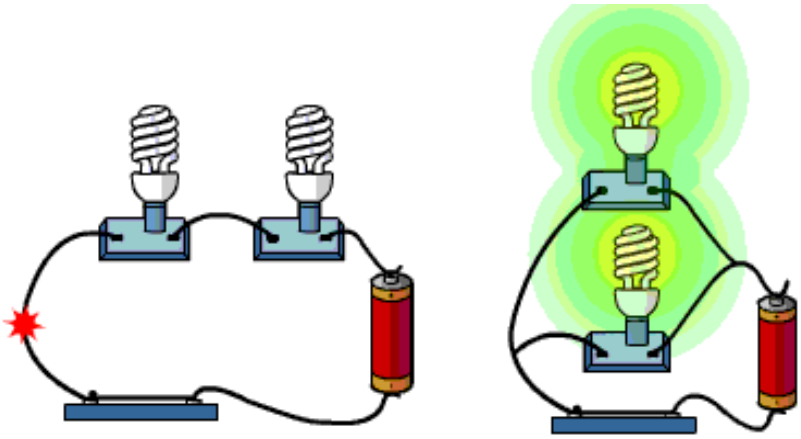
Resistor	Light bulb	Wire	Open switch	Closed switch
				
Power supply	**Fuse**	**Voltmeter**	**Ammeter**	**Motor**
				

voltmeter: measures the voltage of the circuit.

ammeter: measures the current intensity of the circuit.

Types of circuits

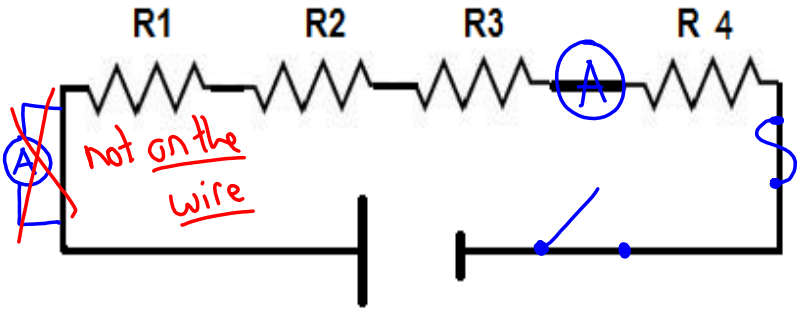
Series	Parallel
-One pathway 	-multiple pathway 

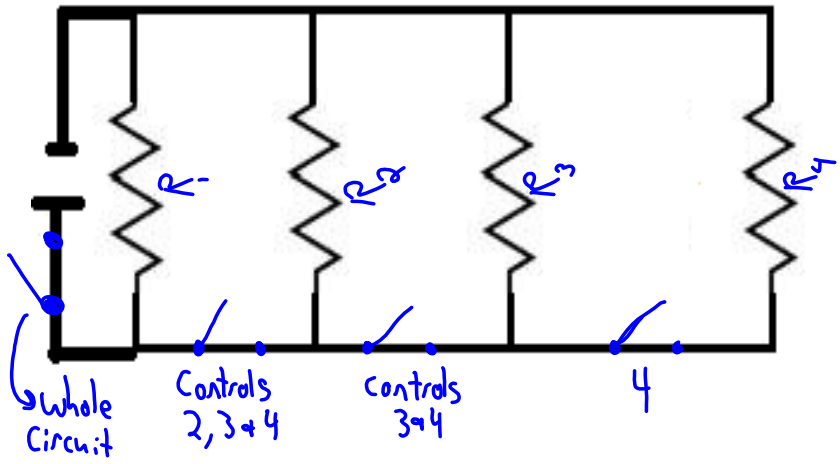


Series Circuit Parallel Circuit

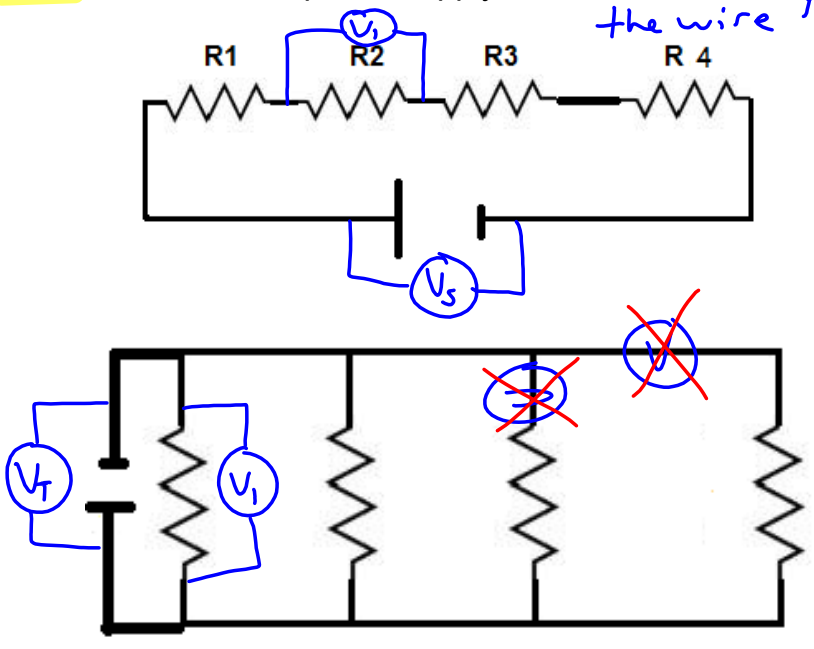
Symbols on a circuit

Ammeter, switches and fuses: All are placed the same way on a circuit, directly on a wire. Depending where they are placed they can control a part, parts or the whole circuit. The way they are placed is called in 'series'.





Voltmeters: Are placed in 'parallel' which means above or below the resistor or power supply. → Not directly on the wire



Putting it all together

Example 1:

- Circuit with one pathway
- 4 light bulbs
- Voltmeter for total voltage, (Vs)
- Voltmeter for $L_{1,}$ (V_1)
- Voltmeter for L_2 and L_3 together, (V_2)
- Voltmeter for $L_{2,}$ (V_3)
- Ammeter for total current, (A_1)
- Ammeter for current of L_1, (A_2)
- Fuse for the whole circuit.
- Fuse for L_3
- Switch for L_1
- Switch for all lights

Series = Same