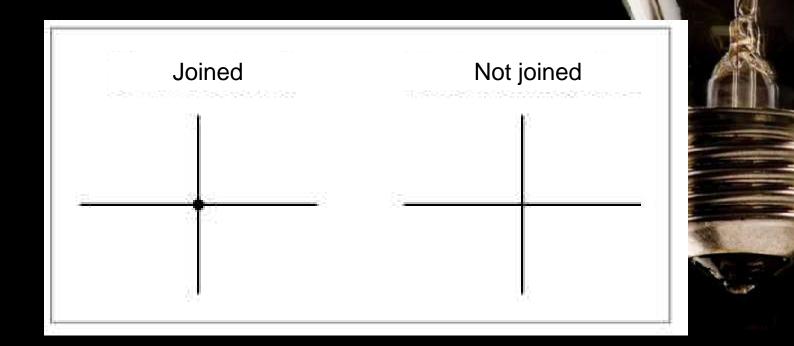
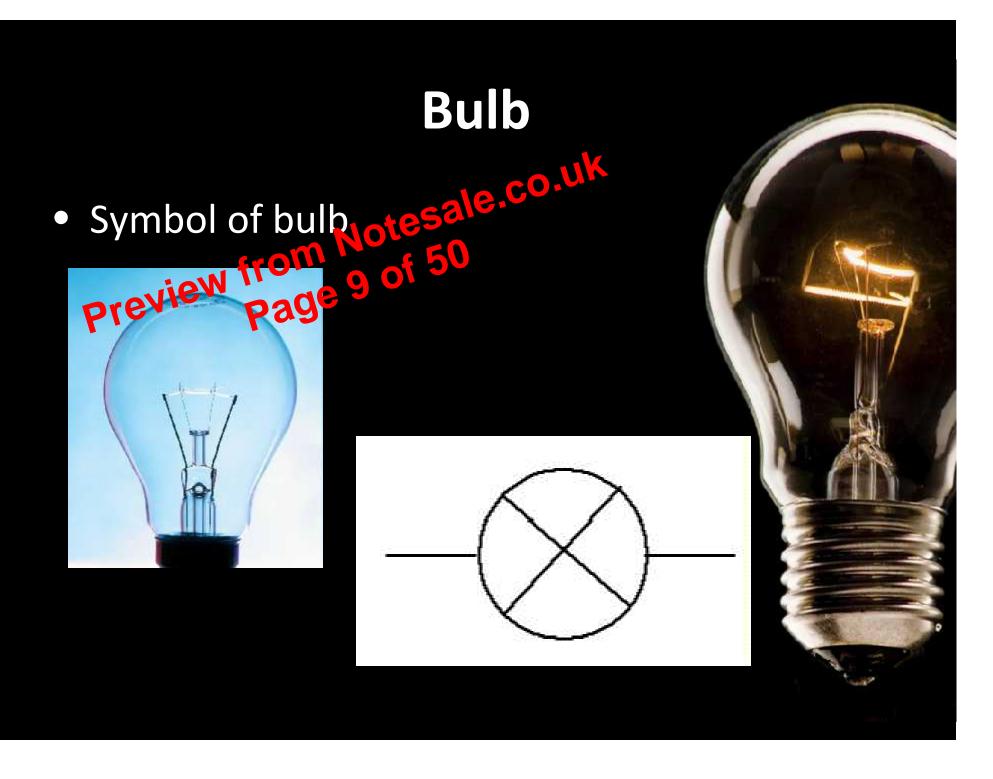


Symbols of connecting wires

Connecting wires (joined) and connecting wires (not joined)





Electric Current

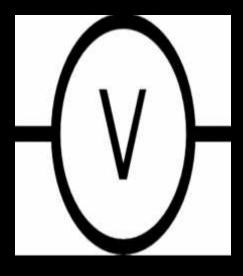
- Flow of electric charges or flow of electrons through a conductor
- depends on # of e⁻ passing a point in a given time
- measured in amperes (A)



Measuring Voltage

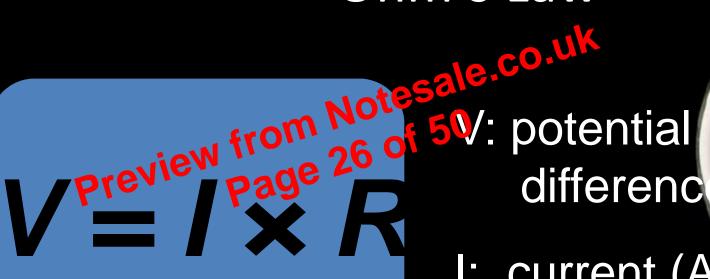
Voltmeter











I: current (A

R: resistance

- Voltage increases when current increases.
- Voltage decreases when resistance increases

What is a resistor?

 Appliances need to existe that the correct size of current flows to operate properly

 To control the size of the current, electrical components called resistors are used in the circuits.



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Sample Problems:

Suppose that you have five appliances connected in series of Ω ; the TV set, 10 Ω ; the radio, 5 Ω ; the flat iron, 75 Ω ; and the electric stove, 55 Ω . If the circuit is connected to a direct current of 220 V, what is

- a. totat resistance in the circuit?
- b. the total current?
- c. the voltage across each appliance?