Electric Circuits

Electric Circuit – a closed loop in which electric charge can be conducted.

An electric circuit requires three main components:

- 1. a source of energy
- 2. a conducting wire
- 3. a closed loop

Electric Current – the rate of flow of charge past a given point in a circuit.

The more charge that flows past a given point in each second, the greater the electric current.

Electric current can be found by the amount of charge per unit time:

ex.

What is the current if a charge of 92 C passes a point in a circuit in ½ a minute?

Δ	v	
ᆫ	Λ	•

What amount of charge flows through a wire if it has a current of 5.1A for 12.5 seconds?

 $\underline{\text{ex}}.$ How many electrons flow through the wire in the previous question?