

## Quiz 2: Electric Circuits DL 3,4,5 FNT 3,4

charges flow in an electric circuit  $\rightarrow$  current,  $I = \frac{\text{amount of charge}}{\text{time}}$  (see flow rate in a fluid system)



$I$  = current = same/constant

$$I_{in} = I_{out}$$

$$\left( \Delta P = \frac{\Delta PE}{V_0} + \frac{\Delta PE}{V_H} \right) = \frac{I_{\text{pump}}}{V_0} - IR$$

$$\Delta(\text{Total Head}) = \frac{I_{\text{pump}}}{V_0} - IR$$

## Ohm's Law

current  $I$  (A = amperes) = flow rate of electric charge =  $\frac{\text{charge}}{\text{time}}$

voltage  $V$  (V = volts) = electric pressure (electric potential difference) =  $\frac{\text{electric energy}}{\text{charge}}$

resistance  $R$  ( $\Omega$  = ohms) = "friction/dissipation" of a resistor

charge  $q/Q$  (C = coulombs):  $q_e = 1.6 \times 10^{-19} \text{ C}$

Emf  $\mathcal{E}$  (V = volts) = electromotive force; electric potential of battery =  $\frac{\text{(pump) energy of battery}}{\text{charge}}$

$$\Delta P = \frac{E_{\text{pump}}}{V_0} - IR$$

$\downarrow$                        $\downarrow$                        $\downarrow$

$$\Delta V = \mathcal{E} - IR$$

(Ohm's Law)

## Simple Circuits

current ( $I$ ) flows:  $+$   $\rightarrow$   $-$  terminal of the battery (opp. of  $e^-$ )

current



Voltage is gained through battery

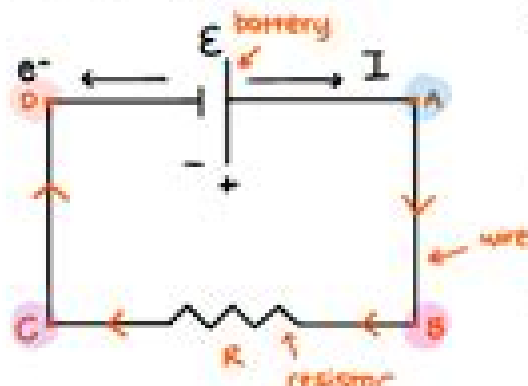
$$\Delta V_{\text{battery}} = V_A - V_D = \mathcal{E} > 0$$

Voltage is lost through resistors

$$\Delta V_R = V_C - V_B = IR < 0 \text{ (voltage drop)}$$

no change through a wire

$$\Delta V = V_B - V_A = 0$$



Circuit symbols:

— wire ( $I$ )

—  $\mathcal{E}$  — battery ( $\mathcal{E}$ )

—  $R$  — resistor ( $R$ )

—  $\text{light bulb}$  ( $R$ )

—  $\text{switch}$

# Simple Circuits Study Guide

**Kathleen Armour**

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web standard operating procedure pre planning for and responding to chemical spills page 5 of 7 investigator general safety location ehs revision 1 0 doc active date retired date 7 2 9 if the spill involves solid granular or powdered material take care not to create dusts while scooping the material into a sealable container

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