



PHYSICS

ELECTRICITY

Electricity

2 TYPES:

1. .
- 2.

Unit:

The unit for electricity is called the **Coulomb (C)**. A Coulomb represents a package of electrons.

1 C =

The symbol for coulombs is **Q** for Quantity of electrons.

CURRENT

-
-
-

A is the basic metric unit for electricity. If **1 Amp** of current flows, then **1 coulomb** of electrons passes by a given point every second.

Ex. Find the current of the following wire by counting how many "coulombs" flow by in 30 seconds.

CURRENT $I = \frac{C}{t}$

Click above



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CURRENT

FORMULA

$$I = \frac{Q}{t}$$

I =

Q =

t =

Ex: Find the current if 960 C passes through a hair dryer in a minute.

Q =

I =

t =

VOLTAGE

-
-
-

Watch for the high energy coulomb of electrons in the following:

VOLTAGE

$$V = \frac{E}{Q}$$

Click above - Then advance a slide



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VOLTAGE

Formula

$$V = \frac{E}{Q}$$

V =

E =

Q =

Super Formula

$$E = VIt$$

Ex: A 12V car battery supplies 500 C of electricity to start a motor.

a) How much energy is used to start the car?

V =

E =

Q =

b) If it takes 1.25s to start the car, what is the current flowing from the battery?

I =

Q =

t =



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HOMEWORK

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