

# PRACTICAL ELECTRICITY!

## Introduction:

Hey everyone! How are you? Today we are going to learn more about electricity. But before that, have you ever noticed the power ratings on the electrical appliances in your home? And wondered how they are measured? Don't worry, we'll discuss that!

## Measuring Electrical Energy:

Starting with power, we have learned in the tutorial on Work, Energy and Power that power is the rate of work done or rate of energy converted. In symbols, it's

$$P = W / t$$
$$P = E / t$$

or

Now, the equation for potential difference  $V$  between two points in a circuit is given by:

$$V = E / Q$$

which is equal to

$$E = QV$$

where  $V$  is the potential difference or voltage,  $E$  is the energy consumed (or work done in Joule) and  $Q$  is the charge in  $C$  (Coulomb).

If we substitute the above two equations, we'll get  $P = QV / t$ .

Now substitute  $Q = It$  into the equation we just formed:  $P = VI$

These equations will be very helpful to find the unknown (power in most cases).

- $P = VI$
- $P = I^2R$  (since  $V = IR$ )
- $P = V^2 / R$  (since  $I = V / R$ )

You know that the SI unit of power is Watt, right?

**Q1,** A bulb is connected to 3 V battery of negligible internal resistance. The ammeter reading was 0.7 A. What is the power used by the bulb?

Coming to electrical energy, we know that  $P = E / t$ , we can write it as  $E = Pt$  or  $E = VIt$  (since  $P = VI$ ).

Other formulas for energy are:

- $E = VIt$
- $E = I^2Rt$  (since  $V = IR$ )
- $E = V^2t / R$  (since  $I = V / R$ )

## Cost of electrical energy:

Now if you have ever noticed how the amount of electricity consumed by your house is calculated, you will know that it is calculated in kilowatt-hours (kWh) of electrical energy used. One kilowatt-hour is the amount of electrical energy used by a 1kW device in one hour. Solve this question and you'll get clear about this:

**Q2,** A 1.5 kW electric heater is used to heat a large container of water for 2 hours. Calculate the amount of electrical energy used by the heater in (a) kWh, (b) J.

## Safe use of electricity:

# Practical Electricity

**W. E. (William Edward) 1847-190**  
**Ayrton**



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