OPTIMUM
INTERNATIONAL SCHOOL

Class-X

Physics **Date:-24/04/2020**

Chapter-12 (Electricity)

- Watch the video of science chapter-12 (Electricity), Part-7 from **Optimum Online E-Learning Platform**
- Answer the following questions
  1. Potential difference between two points A and B is 5V. How much work is done to move 2C charge between these two points?
  2. A 12V battery is connected to a device. If 1A current is flowing through it, then how much work is done in 1 minute?
- Answers of the previous day homework
  1. What do you mean by potential difference?

     Answer-

     Potential difference between two points is defined as the work done to bring a unit positive charge from one point to another point. In mathematical form,

$$\text{Potential difference} = \frac{work\ done}{charge}$$

2. Define 1 volt.

Answer-

$$1 \text{ volt} = \frac{1\ joule}{1\ coulomb}$$

If one joule work is required to bring unit positive charge from one point to another, then the potential difference between those two points is 1 volt.

3. What is voltmeter?

Answer-

Voltmeter is a device to measure the potential difference.