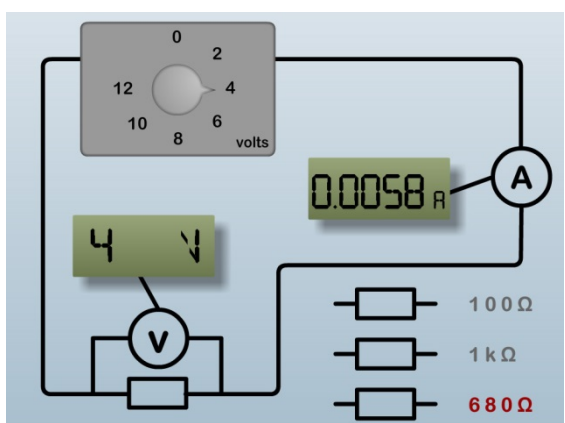
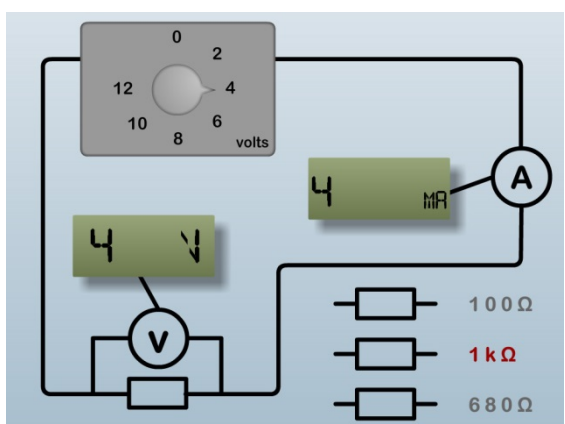
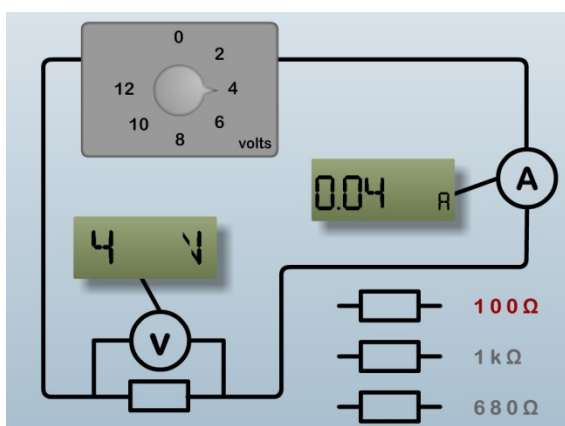


APPLYING OHM'S LAW IN ELECTRONIC CIRCUITS



In some instances a unit might be rather large and in others rather small. This tends to introduce a large number of '0's into calculations. The amp is a large unit of current, and in most electronic circuits we are dealing with currents which are more conveniently expressed in milli-amps (mA).

$$1\text{mA} = 0.001\text{A}$$

The ohm is a rather small unit of resistance. Resistors used in electronic circuits have values which are often greater than a thousand ohms. In such cases it is more convenient to express their values in kilohms ($\text{k}\Omega$)

When dealing with electronic circuits we often find that using volts, milliamps and kilohms in Ohm's law makes calculations much simpler.

$$V \text{ (volts)} / I \text{ (mA)} = R \text{ (kilohms)}$$

$$1 \text{ k}\Omega = 1000\Omega$$

$$V = I \times R$$

$$I = \frac{V}{R}$$

$$R = \frac{V}{I}$$

