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STUDY MATERIAL SCIENCE

CLASS-VII

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▶ Heating & Magnetic effect of Electric current

Element :

All electrical heating devices consist of a coil of wire called an element.

When these appliances are switched ON after connecting to the electric supply, then their elements become red hot and release the heat.

There are some electric appliances such as immersion heaters, hotplates, irons, geysers, electric kettles, hair dryers, etc., which have elements inside them.

Factors affecting the Heating Effect of Current:

There are two factors on which the heating effect of current depends :

1. Resistance of wire

2 Magnitude of current passed through a given wire