

# VIDYA BHAWAN BALIKA VIDYAPEETH

## STUDY MATERIAL SCIENCE

### CLASS-VII

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Teacher : Poonam Kumari

#### ▶ Heating & Magnetic effect of Electric current

#### Heating Effect of Electric Current :

Production of heat in an electric device due to the flow of electric current is called the heating effect of electric current.

We have seen an electric heater used for cooking, an electric bulb or room heater. So, when these appliances are switched ON after connecting to the electric supply, then their elements become red hot and release the heat. This happens due to the heating effect of electric current.

The degree to which a material opposes the passage of current through itself is known as its resistance.

Actually, when an electric current passes through a high resistance wire, the electric energy gets converted into heat energy and this heat energy heats up the wire.