

Electricity

Electrical Safety Guidelines

NCF and/or NCERT Learning Outcomes:

• To learn what precautions should be taken while working with electricity.

Why should you learn this?

- It will make you aware about what precautions you should take when you use electric gadgets.
- Understanding electrical safety empowers you to apply your knowledge in emergencies and protect yourself and others from harm.



We are surrounded by electricity. It is a boon as well as a bane. Precautions need to be taken to avoid electric shocks. Let's read the guidelines below to understand what the precautions are.



Electrical Safety Guidelines

General precautions

- Do not touch electrical appliances, switches, or wires with wet hands or a wet cloth.
 - Do not touch open wires.
 - Do not play near electric poles or wires.
 - Do not touch the pins while connecting plugs to the electric sockets.
 - Do not touch the metal portions of the bulb or the holder while fixing an electric bulb.
 - Do not connect wires connected to the power source to each other. Doing so may cause a short circuit, which may cause a fire.
 - Always wear dry rubber footwear while working with electricity.
 - In case of a short circuit, shut down the power supply immediately.
 - If you observe a fault in the home electric wiring, please get it fixed by an experienced electrician.



On the way to school, you saw sparks on an electric pole. What should you do?

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Experiments with electricity

- Never conduct electrical experiments with the electrical sockets installed in your home. These have a voltage of 220-240 volts, which can be lethal.
- Always perform electrical experiments under the supervision of teachers or adults.
- Always disconnect the wires from the battery or cell when experiments are not being performed. This will prevent the draining of the battery or cell, and the wires will not become hot.
- Use a battery or cell of 9 volts or less when conducting electrical experiments.

You are plugging in a mobile charger, but you notice the cord is slightly damaged and some wires are visible. What should you do?

While using cells or batteries

- Do not put cells in your mouth. They contain hazardous chemicals.
 - Do not play with the chemicals inside the cells, burn them, or mix them with water for any kind of experiment.
 - Do not keep cells in the sun or burn them. There is a risk of explosion.













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This resource is aligned with competencies outlined in the National Curriculum Framework (NCF) and National Council of Educational Research and Training (NCERT). (Grade 6, Electricity and Circuit)



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