

Name: _____ Date: _____

Electricity and Circuits

Q1. Why handles of tools like screwdrivers, pliers and electric tester are covered with plastic or rubber?

Ans. _____

Q2. Why we should not join the two terminals of an electric cell without connecting them through a switch or a device like a bulb?

Ans. _____

Q3. Fused bulb does not glow. Give reason.

Ans. _____

Electricity and Circuits

Q1. Why handles of tools like screwdrivers, pliers and electric tester are covered with plastic or rubber?

Ans. Electricians sometime need to touch copper wires or they may accidentally come in contact with live wire while working. Since human body is good conductor of electricity, to prevent them from electric shock handles of tools like screwdrivers, pliers and electric tester are covered with plastic or rubber.

Q2. Why we should not join the two terminals of an electric cell without connecting them through a switch or a device like a bulb?

Ans. We should not join the two terminals of the electric cell without connecting them through a switch and a device like a bulb because if we do so, the chemicals in the electric cell get used up very fast and the cell stops working.

Q3. Fused bulb does not glow. Give reason.

Ans. An electric bulb may fuse due to many reasons. One reason for a bulb to fuse is a break in its filament. A break in the filament of an electric bulb means a break in the path of the current between the terminals of the electric cell. Therefore, a fused bulb does not light up as current do not passes through its filament.