

SAINIK SCHOOL GOPALGANJ
CLASS –VI
Subject-Science Vacational Task

SOME SUGGESTED ACTIVITIES

1. Imagine there were no electric supply for a month. How would that affect your day to day activities and others in your family? Present your imagination in the form of a story or a play. If possible stage the play written by you or your friends in school.

2. For your friends, you may set up a game "How steady is your hand?". You will need a cell, an electric bulb, a metal key, two iron nails (about 5 cm in length), about one and a half metre long thick metal wire (with its plastic insulation scraped off) and few pieces of connecting wires. Fix two nails nearly one metre apart on a wooden board so that these can be used as a hook. Fix the wire between the nails after inserting it through the loop of the key. Connect one end of this wire to a bulb and a cell. Connect the other terminal of the cell to the key with a wire. Ask your friend to move the loop along the straight wire without touching it. Glowing of the bulb would indicate that the loop of the key has touched the wire.

3. Read and find out about Alessandro Volta who invented the electric cell. You may also find out about Thomas Alva Edison who invented the electric bulb.

Class VI

Science

Chaper12: Electricity and Circuits

Assignment Note: Assignment to be done in Practice notebook.

Q1. Fill in the blanks: a. Current flows from _____ terminal to the _____ terminal of an electric cell. b. A thin wire that gives off light is called the _____ of an electric bulb. c. An electric cell produces electricity from the _____ stored in it. d. The bulb glows only when _____ flows through the circuit.

Q 2. Name a safe source of electricity for performing Science activities in the school laboratory

. Q 3. Ravi prepared an electric circuit using a cell, a torch bulb and connecting wires. a. Define electric circuit. b. Name the device which either breaks the circuit or completes it.

Q 4. In an electric cell, name the part which represents the positive terminal and the part which represents the negative terminal. Q 5. Why is the danger sign displayed on poles, electric substations and many other places? Q6. Tanu's mother stopped her from touching an electric switch as her hands are wet. Why?

Q 7. Give reason:

- a. The two terminals of a cell should not touch each other
- b. . b. A fused bulb does not light up.
- c. c. Air is an insulator.
- d. d. Internal core of wires are made up of conductors and it is covered with insulators.

Q 8. Differentiate between the following

- a. Conductors and insulators
- b. Closed and open circuit

Q 9. Draw neat and labelled diagrams of:

- a. An electric cell
- b. An electric bulb
- c. Inside view of a torch
- d. An electric circuit with a switch in 'on' position

e. An electric circuit with a switch in 'off' position