

CLASS: VIII

SUBJECT: SCIENCE

CHAPTER: 14. CHEMICAL EFFECTS OF ELECTRIC CURRENT

SUBTOPIC: CONDUCTORS AND POOR CONDUCTORS

EXPERIENTIAL LEARNING

ACTIVITY:

Aim: To enable the students to differentiate between conductors and poor conductors.

Materials Required: Beakers, Tester, Distilled water, Tap water, Lemon juice.

Procedure:

- Students will be divided into four groups.
- Each group will be given two beakers and the tester made by them.
- The groups will be asked to fill one beaker with distilled water and another with tap water.
- The free ends of the tester will be first dipped into the beaker containing distilled water.
- Later, the free ends of the tester will be dipped into the beaker containing tap water.
- Again, after adding lemon juice to the beaker with tap water, the free ends of the tester will be dipped in it.
- The students will get involved in experimenting the concept of good conductors and poor conductors and will understand better.
- The students will be asked to observe all the three cases and will be instructed to record their observations based on the glow of the bulb.

CURIOSITY QUESTION:

Have you ever questioned yourself why do we experience electric shock when we touch the electrical appliances with wet hands?

ANSWER GUIDE:

- Why does the bulb glow feeble in tap water and not at all in distilled water?
- Is it possible to make the bulb glow by dipping the tester in distilled water?
How?
- Sometimes, even in seawater/acidified water the bulb will not glow. Give reason.