



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Science

Grade 7

Week : 09th of 1st Term

Unit 3 – Generation of Electricity(2)

➤ Cells and batteries

Activity 3.3

Generating electricity using a lime fruit

You will need :- A lime fruit thoroughly pressed, so as not to come the juice out, a plate of copper, a plate of zinc, connecting wire, musical circuit in greeting cards or a milliammeter

Method :-

- Insert the pieces of copper sheet and zinc sheet into the lime fruit (without contacting each other).
- Connect a wire to each sheet.
- Remove the cell of the musical circuit in the greeting card, and connect the free ends of the above mentioned wires to the circuit or you can connect those wire ends to the milliammeter (copper sheet and zinc sheet should be taken as positive (+) and negative (-) terminals, respectively)
- What can you observe?

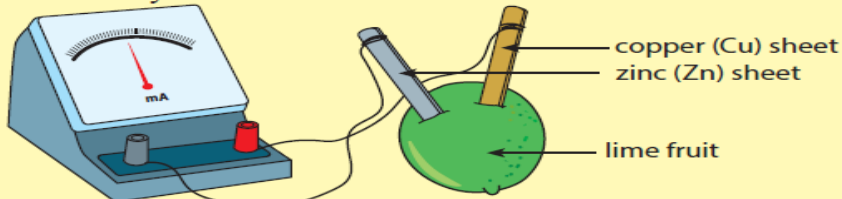


Figure :- 3.3 ▲

Activity 3.6

You will need :- Four dry cells, connecting wire, a piece of cardboard, cello tape or rubber bands.

Method:-

- Connect four dry cells as shown in the Figure 3.7.
- Cello tape or rubber bands can be used to connect wires to dry cells.
- Wrap the set of dry cells round using a piece of cardboard, to make it a handy pack.
- Take out the terminals from the pack.

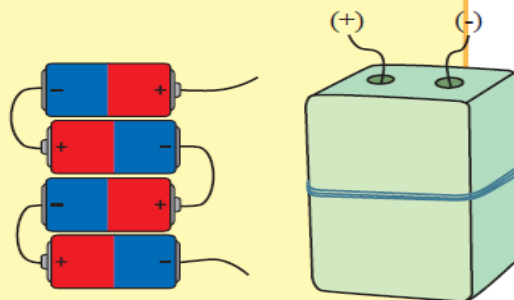


Figure :- 3.7 ▲

Self-assesment

1. Mention three weaknesses of simple cells.
2. Write an advantage of a battery, compared to a cell
3. Give examples for instances when cells and batteries are used in day-to-day life.

- There are two main terminals in most electric sources. They are,
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