

The Primary Stage of Grades (4-5)
School Year 2022 - 2023

Name: _____

Unit (9): More about electrical circuits
Worksheet (2): Electrical circuits-
Lab Report

Date: / /

Grade 5 CP (All sections)

Objective:

- Construct a simple circuit.
- Change the circuit by adding/ removing components and observe what happens.

Required Materials:

- Wires	- Bulbs
- Cells	- Switch
- Bulb holders	

	<u>Procedure</u>	<u>Observation</u>	<u>Draw the circuit in symbols</u>
Part 1	<p>1. Connect the wires with each side of the cell.</p> <p>2. Connect the other ends of the wires into each side of the bulb.</p> <p>3. Observe what happens, record your observation.</p>		

	<u>Procedure</u>	<u>Observation</u>	<u>Draw the circuit in symbols</u>
Part 2	<p>Add a switch to your circuit. Observe what happens when you open the switch and when you close it.</p> <p>Record your observation.</p>		
Part 3	<p>Now add another cell to your circuit and observe what happens to the bulb.</p> <p>Record your observation.</p>		
Part 4	<p>Now add another bulb to your circuit and observe what happens to the bulb.</p> <p>Record your observation.</p>		

	<u>Procedure</u>	<u>Observation</u>	<u>Draw the circuit in symbols</u>
Part 5	<p>Change the direction of the other cell, with the positive terminal of the first cell facing the positive terminal of the other cell. Does the bulb light up?</p> <p>Record your observation.</p>		

Conclusion:

- The **basic components** of a simple electrical circuit are:

1.

2.

3.

We can add an optional component **to** the circuit, in order to turn the bulb on and off easily.

- If the switch is closed:

- If the switch is open:

If there is any gap in the circuit,

Electrical current needs a closed path (complete circuit) in order to pass.