

# Grade 10 Physical Sciences Experiment - Memo

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**\*\*Topic:\*\* Electric Circuits with Resistors in Series and Parallel**

**\*\*Total: 50 marks\*\***

## **Apparatus (5 marks)**

- 1 mark each for: Power supply, 3 resistors, voltmeter, ammeter, connecting wires.

## **Aim (2 marks)**

- To compare the potential difference and current in series and parallel resistor circuits.

## **Hypothesis (3 marks)**

- In a series circuit, the current is the same throughout and voltage is shared.
- In a parallel circuit, voltage remains the same across branches and current divides.

## **Diagram (6 marks)**

- Series diagram: all resistors in a single path.
- Parallel diagram: branches with individual resistors.
- Correct symbols and labels (battery, resistors, ammeter, voltmeter).

## **Method (8 marks)**

- Step-by-step setup and measurement of current and voltage in both series and parallel circuits.
- Mention accurate readings and using appropriate instruments.

## **Results Table (6 marks)**

- Includes: resistance (ohms), voltage (V), and current (A) for each resistor.
- Tables for both series and parallel circuits.

# Physical Science Formal Experiment No1 Memo 2014

**John D. Mays**



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