# Grade 10 Physical Sciences Experiment -Memo

\*\*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**

**PT Brinkman** 

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