

Investigating circuits with more than one source of e.m.f.

Introduction

In this practical activity you will be measuring the potential difference and current for each component in a circuit and using this to substantiate Kirchhoff's first and second laws. You should already be aware of the difference between e.m.f. and potential difference and have an understanding of internal resistance and how to determine this.

Aim

- To draw circuit diagrams and make circuits from circuit diagrams.
- To measure values within the circuit
- To observe whether Kirchhoff's laws are substantiated, within experimental uncertainty

Intended class time

- 45 to 60 minutes

Equipment (per group)

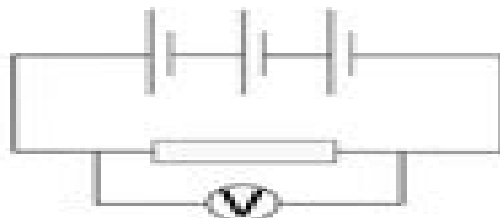
- 3 D standard cells in holders (not high power or high capacity cells)
- voltmeter
- ammeter
- multimeter, reading in milliamperes
- various resistors in the range 10Ω to 100Ω .

Health and safety

- Safe use of electrical circuits

Procedure

1. Determine the e.m.f. and internal resistance of one cell.
2. Determine the e.m.f. of three cells in series.



3. What do you predict the internal resistance of this arrangement of cells will be?
4. Determine if your prediction is correct.

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