

### 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)

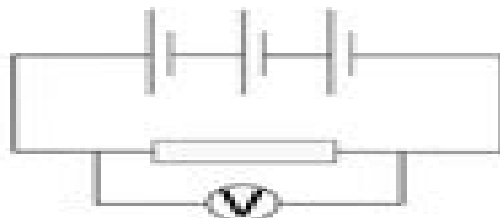
- 3 D standard cells in holders (not high power or high capacity cells)
- voltmeter
- ammeter
- multimeter, reading in milliamperes
- various resistors in the range  $10\Omega$  to  $100\Omega$ .

#### 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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# Ocr Physics 2013 A Level Paper

**G Psacharopoulos**



## **Ocr Physics 2013 A Level Paper:**

## **Ocr Physics 2013 A Level Paper** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ocr Physics 2013 A Level Paper**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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