**UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**

International General Certificate of Secondary Education

# MARK SCHEME for the NOVEMBER 2004 question paper

## 0652 PHYSICAL SCIENCE

**0652/05**          **Paper 5 (Practical Test), maximum raw mark 30**

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the *Report on the Examination*.

- CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the November 2004 question papers for most IGCSE and GCE Advanced Level syllabuses.

**Grade thresholds** taken for Syllabus 0652 (Physical Science) in the November 2004 examination.

|  | maximum mark available | minimum mark required for grade: | | | |
|---|---|---|---|---|---|
|  |  | A | C | E | F |
| Component 5 | 30 | 23 | 13 | 10 | 8 |

The threshold (minimum mark) for B is set halfway between those for Grades A and C.
The threshold (minimum mark) for D is set halfway between those for Grades C and E.
The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.
Grade A* does not exist at the level of an individual component.

# INTERNATIONAL GCSE
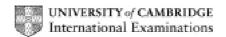
## MARK SCHEME

## MAXIMUM MARK: 30

SYLLABUS/COMPONENT: 0652/05

PHYSICAL SCIENCE
Paper 5 (Practical Test)

UNIVERSITY *of* CAMBRIDGE
International Examinations

**1** Table

    Four times recorded in seconds

    Times increase

    One mark for each time if within 20% of SV         **[6]**

Graph

    Axes correctly labelled

    Suitable scales

    Plotting correct

    Suitable line         **[4]**

    Time taken correct from graph         **[1]**

**(d)** using graph to answer in terms of rate (not time)         **[1]**

**(e)** weighing magnesium

    collect and measure gas volume

    drawing is suitable         **[3]**

        **Total [15]**

**2** **(a)** value for $f_1$ similar to supervisor

    values $f_2$ and $f_3$ recorded

    average correct         **[3]**

**(b)**

| between F and 2F | smaller | inverted |
|---|---|---|
| at 2F | same | inverted |
| beyond 2F | larger | inverted |

        **[9]**

**(c)** both lines correctly drawn

    correct measurement for height of line

    accuracy         **[3]**

        **Total [15]**