

CAMBRIDGE
INTERNATIONAL EXAMINATIONS

NOVEMBER 2002

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK : 30

SYLLABUS/COMPONENT : 0652/5

**PHYSICAL SCIENCE
(PRACTICAL)**



UNIVERSITY of CAMBRIDGE
Local Examinations Syndicate

| | | | |
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Q1

| | | |
|--------|---|---|
| (a)(i) | correct conversion to kg | 1 |
| (ii) | correct value | 1 |
| (b) | mass between limits weighed to nearest 0.1g | 2 |
| (ii) | both temperatures to nearest 0.5 C any drop in temperature | 2 |
| | temperature change correct 2.5g gives 6.0°C fall 3.0g gives 7.0°C fall two marks if within 1°C allow one if within 2°C | 2 |
| (iii) | correctly calculated | 1 |
| (c) | e.g. how to read thermometers use some lagging | 1 |
| (d) | endothermic because temperature falls | 1 |
| (e) | rise between 45 and 48 °C (TWO) (subject to SV value) rise 42-44 °C (ONE) | 2 |
| | description rough details taking water up to more than 60° C and wait to cool | 2 |

Total 15

| | | | |
|--------|------------------------------------|----------|-------|
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Q2

(b) Has five results

Good spread of temperatures

Within 10secs of SV for 35°C

Within 2 secs of SV at 65°C

All points for curve within 2 secs of curve

5

(d) Graph

Axes

Scale is sensible

Plotting correct

Acceptable curve

4

(e) (i) Time is read correctly

(ii) Temperature is read correctly

2

(f) non linear OR temp. is up as time goes down

1

(g) use 1/time

1

(h) surround reagents in ice

repeat experiment as above

2

total 15