

NOVEMBER 2002

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK : 30

SYLLABUS/COMPONENT : 0652/5

**PHYSICAL SCIENCE
(PRACTICAL)**



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

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