**CAMBRIDGE** 

## **NOVEMBER 2002**

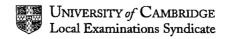
## **INTERNATIONAL GCSE**

## MARK SCHEME

**MAXIMUM MARK: 30** 

SYLLABUS/COMPONENT: 0652/5

PHYSICAL SCIENCE (PRACTICAL)



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		Tio
<b>.</b> .		39
- Q1		
(2)(i)	correct conversion to be	•
(a)(i)	correct conversion to kg	1
(ii)	correct value	1
		•
<b>4</b> -1		
(b)	mass between limits	
	weighed to nearest 0.1g	2.
7	Worghou to nemost o.15	۷.
(ii)	both temperatures to nearest 0.5 C	
	any drop in temperature	2
4	temperature change correct 2.5g gives 6.0°C fall	
	temperature change correct 2.5g gives 6.0°C fall 3.0g gives 7.0°C fall	
	5.05 Strob 7.0 C Idil	
	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
(2)		
(e)	rise between 45 and 48 °C (TWO) (subject to SV value)	
	rise 42-44 °C (ONE)	2
	100 12-11 C (0112)	L
in a second seco		
	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