Rate(speed) of Reaction

Mark Scheme 3

Level	IGCSE
Subject	Chemistry
Exam Board	CIE
Topic	Chemical Reactions
Sub-Topic	Rate (speed) of Reactions
Paper Type	Alternative to Practical
Booklet	Mark Scheme 3

Time Allowed: 42 minutes

Score: /35

Percentage: /100

1 ((a)	Table	of	results

volumes correctly completed (4), -1 for each incorrect

0, 18,

(a) points plotted correctly (3), -1 for each incorrect smooth line curve (1)

[4]

(c) reaction finished/all acid used up (1)

[1]

(d) point at 3 minutes/at 42 cm³ (1) does not fit curve owtte (1)

[2]

(e) sketch line below plotted curve (1) levels off around 30 cm³ (1)

[2]

[Total: 13]

2 table correctly completed

catalyst W	catalyst X
0	
16	
32	
36	
37	
37	
all correct (3)	-1 each incorrec

[3]

(b) graph choice of suitable scale for y-axis (1) all points correctly plotted (3) smooth curves (1) labelled (1)

[6]

(c) solid X (1) faster reaction / more gas given off at 20/40 s (1)

[2]

(d) same volume of hydrogen peroxide used in both experiments (1)

[1]

(e) line sketched on grid with steeper slope than for catalyst **X** at 25°C (1) levelling out at same level (1)

[2]

[Total: 14]

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3	volumes correctly completed time/minutes	volume/cm ³	
	0	0	
	2	18	
	4	30	
	6	33	
	8	42	
	10	45	
	12	46	[3]
	(a) All points plotted correctly (2) -1 for any incorrec smooth line graph (1)		[3]
	(b) (i) at 6 minutes (1)		[1]
	(ii) 37/38 cm ³ (1)		[1]