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Carbonates

Mark Scheme 2

Level	IGCSE			
Subject	Chemistry			
Exam Board	CIE			
Торіс	Carbonates			
Sub-Topic				
Paper Type	Alternative to Practical			
Booklet	Mark Scheme 2			

Time Allowed:	44 minutes
Score:	/36
Percentage:	/100

Question	Answer	Marks	Guidance
1	 7 from: weighed amount / x g of toothpaste; add water; stir / heat; filter (to obtain calcium carbonate); wash; dry; weigh residue; calculate percentage calcium carbonate; 	7	

2		ny seven from: qual weight/mass of limestone and marble (1)	[7]
	с	rush (1)	
	а	dd excess owtte (1) hydrochloric acid (1)	
	S	tir (1)	
	fi	lter mixture (1)	
	d	lry (1)	
	re	eweigh (1)	
	С	onclusion (1)	
3	(a	points plotted correctly (2) - 1 for any incorrect smooth curve (1) suitable scale (1) axes labelled (units not essential) (1) accept plot of loss in mass against time	[5]
	(b)	from graph, 180g (ignore no units) (1) indication on graph (1)	[2]
	(c)	gas given off	[1]

- (c) gas given off
- (d) to prevent loss of acid **not** loss of water or steam [1]
- (e) 4 minutes [1]
- (f) sketched curve above original (1) levelling out at 174 s or heading towards it (1) [2]

4 **(a** boxes completed retort/clamp stand (1) (teat) pipette/dropper (1) Bunsen burner (1)

(b) hydration/exothermic (1)

5

Known mass of beach sand (1) add excess (1) dilute hydrochloric acid (1) filter (1) wash (1) dry (1) residue and weigh sand (1) working out result (1) max 6 of 8

[6]

[3]

[1]