

# Carbonates

## Mark Scheme 1

<b>Level</b>	IGCSE
<b>Subject</b>	Chemistry
<b>Exam Board</b>	CIE
<b>Topic</b>	Carbonates
<b>Sub-Topic</b>	
<b>Paper Type</b>	Alternative to Practical
<b>Booklet</b>	Mark Scheme 1

**Time Allowed:** 45 minutes

**Score:** /37

**Percentage:** /100

Question	Answer	Marks
1(a)	final readings completed correctly: 13.2, 39.2; initial readings completed correctly: 0.0, 12.8; differences completed correctly: 13.2, 26.4; all readings and differences to 1 decimal place;	4 1 1 1 1
1(b)	yel__ to orange / red / pink;	1
1(c)	initial and final readings completed correctly: 9.9, 16.5; difference completed correctly: 6.6;	2 1 1
1(d)	bub / fizzing / effervescence;	1
1(e)	Experim 2;	1
1(f)	use a pipette / burette;	1
1(g)	effect on results: none owtte; reason: no change in concentration owtte;	2 1 1
1(h)(i)		1
1(h)(ii)	<b>B</b> is double the concentration of acid <b>A</b> ora / acid <b>B</b> is more concentrated ora;	1
1(i)	any suitable correct and different method <b>M1</b> method; <b>M2</b> reagents; <b>M3</b> result;	3 1 1 1

Question	Answer	Marks
2	any 6 from:  weigh calcium; with lid / cover; heat / burn; allow air to enter / lift lid; cool; reweigh CaO; reheat to constant mass; calculate / find the difference;	6

Question	Answer	Marks
3(a)	trip stirring rod / stirrer;	2
3(b)(i)	B C A;	1
3(b)(ii)	filt	1
3(c)(i)		1
3(c)(ii)	fi	1
3(d)	s / crystals appearing on edge / glass rod test;	1

Question	Answer	Marks	Guidance
4(a)	(te pipette; <u>evaporating</u> dish / basin;	1 1	R: watch glass / clock glass / crucible / petri dish
4(b)(i)	(metal) with high melting point;	1 1	
4(c)(i)		1	
4(c)(ii)	> 7 / purple / blue / dark green;	1	
4(c)(iii)	/ white / white precipitate / cloudy;	1	