

01. 0620\_s19\_ms\_63 Q: 4

<p>any six from:</p> <p><b>EITHER</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> measured volume (dilute) hydrochloric acid</li> <li><input type="checkbox"/> add named indicator</li> <li><input type="checkbox"/> add measured mass / weight of calcium compound</li> <li><input type="checkbox"/> stir / mix (acid and calcium compound)</li> <li><input type="checkbox"/> continue additions until colour changes</li> <li><input type="checkbox"/> repeat with other calcium compounds</li> <li><input type="checkbox"/> conclusion, e.g.: the calcium compound that needs the smallest mass / weight / amount to neutralise the acid is most effective</li> </ul> <p><b>OR</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> measured mass / weight of calcium compound</li> <li><input type="checkbox"/> add named indicator</li> <li><input type="checkbox"/> add (dilute) hydrochloric acid (gradually)</li> <li><input type="checkbox"/> stir / mix (acid and calcium compound)</li> <li><input type="checkbox"/> continue additions until colour changes</li> <li><input type="checkbox"/> repeat with other calcium compounds</li> <li><input type="checkbox"/> conclusion, e.g.: the calcium compound that neutralises the largest volume / amount of (dilute) hydrochloric acid is the most effective</li> </ul>	<b>max 6</b>
---	--------------

02. 0620\_w12\_ms\_61 Q: 6

any seven from:

equal weight/mass of limestone and marble (1)

[7]

crush (1)

add excess owtte (1) hydrochloric acid (1)

stir (1)

filter mixture (1)

dry (1)

reweigh (1)

conclusion (1)

AcelGCSE

Paper Perfection, Crafted With Passion

**[Total: 60]**

03. 0620\_w21\_ms\_62 Q: 1

Question	Answer	Marks
(a)(i)	<b>A</b> (dilute) hydrochloric acid <b>and</b> <b>B</b> marble chips	<b>1</b>
(a)(ii)	(conical) flask	<b>1</b>
(b)	<b>M1</b> (carbon dioxide) is denser than air	<b>1</b>
	<b>M2</b> drops out of gas jar	<b>1</b>
(c)	<b>M1</b> shows collection over water / in a gas syringe	<b>1</b>
	<b>M2</b> in a measuring cylinder / graduations shown on collection vessel	<b>1</b>
(d)	<b>M1</b> filter	<b>1</b>
	<b>M2</b> wash	<b>1</b>
	<b>M3</b> dry and weigh	<b>1</b>