

### Guidance

1. A square bracket with a 1 inside represents one marking point [1]
2. A forward slash represents an alternative acceptable word or phrase, for example, 'Trees require light/sunlight' [1] means that the word light or sunlight is allowed for the mark.
3. Underlined words are required for the mark, for example, 'trees grow because of photosynthesis' [1].
4. A bold 'and' means both parts are needed for the mark, for example, 'leaves need carbon dioxide **and** sunlight [1].
5. The phonetic spelling of correct scientific terminology should be credited unless there is a possible confusion with another technical term, for example if the correct answer is 'Biuret test' then 'burette' would not be allowed. However, 'photosyntheses' for 'photosynthesis' would be allowed.
6. Brackets (.....) are used to indicate information which is not essential for the mark to be awarded, for example '(leaves require) sunlight for photosynthesis [1].

All other guidance is given in the 'guidance notes' section of the mark scheme.

	Answers	Guidance notes	Max
01.1	$\text{CaCO}_3 + 2 \text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{CO}_2$		1
01.2	Any one from: Temperature [1] Surface area or calcium carbonate [1] Volume of acid [1] <i>Reject amount of acid</i>	<i>Avoid the use of the term 'amount' because mark schemes occasionally won't give the mark for the use of this word. Try to use the actual quantity, for example, volume or mass where possible.</i>	1
01.3	The higher the concentration the faster/quicker the reaction [1] <i>Allow converse</i> (because) a higher concentration means more acid particles in a given volume [1] which increases the number of (successful) collisions [1]		3
01.4	Calculate the loss of mass over time [1] <i>Allow use a gas syringe</i> <i>Allow measure the volume of gas in a certain time</i>		1
		<b>Total</b>	<b>6</b>

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