

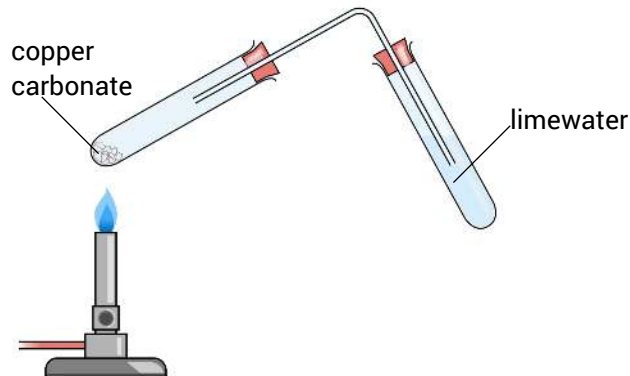
0 1

Carbon dioxide is produced when copper carbonate is heated.

A student investigated heating copper carbonate.

The student used the apparatus to measure how long it took for carbon dioxide to be produced.

The student also noted what happened during each minute for three minutes.



0 1

1

The student used changes to the limewater to measure how long it took for carbon dioxide to be produced.

Describe how.

[2 marks]

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0 2

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Draw **one** line from each context to the correct meaning.

[2 marks]

## Context

## Meaning

**Pure** substance in chemistry

A substance that has had nothing added to it

A single element or a single compound

A substance containing only atoms which have different numbers of protons

**Pure** substance in everyday life

A substance that can be separated by filtration

A useful product made by mixing substances

0 2 . 2

What is the test for chlorine gas?

[1 mark]

Tick **one** box.

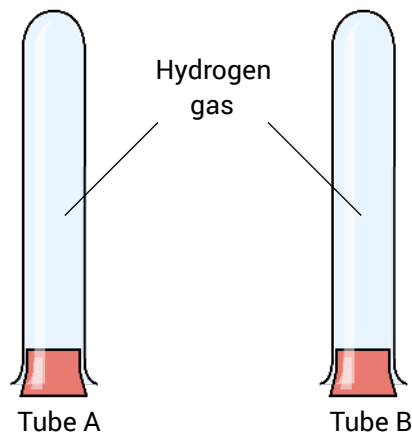
A glowing splint relights

A lighted splint gives a pop

Damp litmus paper turns white

Limewater turns milky

0 3

A teacher collected two tubes full of hydrogen gas, as shown in **Figure 3**.**Figure 3**

She tested tube **A** with a lighted splint as soon as she took the bung out.  
 She tested tube **B** with a lighted splint a few seconds after taking the bung out.

0 3 . 1

Suggest why tube **B** gave a much louder pop than tube **A**.

[1 mark]

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0 3 . 2

Complete and balance the chemical equation for the reaction that takes place  
 when the hydrogen reacts in this test. [2 marks]



(Total 8 marks)

End