2. Diagram 2 shows the electrolysis of water.

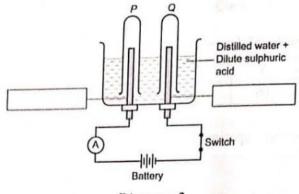


Diagram 2

(a) On Diagram 2, label the electrodes using the following words.

Electrolyte Anode Cathode

[2 marks]

- (b) On Diagram 2, draw the water level in the test tubes P and Q to show the volume of gas collected. [2 marks]
- (c) State the ratio of gas collected in test tubes P and Q.

(d) Draw line to show the test for the gas collected.

[1 mark]

Gas in test tube P

Gas in test tube Q

- Lighted wooden splint explodes with a 'pop' sound
- Turns cobalt chloride paper pink
- Turns lime water chalky
- Lighted wooden splint burns more brightly

(e) Name gases P and Q.

[2 marks]

[2 marks]

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