

# Collecting gas – inquiry activity

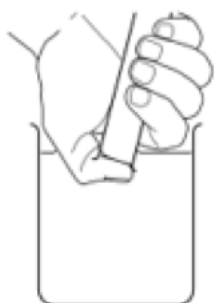
Gas is difficult to collect when carrying out an experiment. Below are some ways for you to try in the laboratory.

## Apparatus

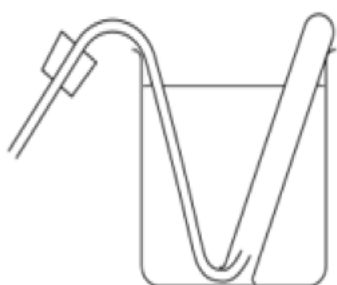
|                            |                    |
|----------------------------|--------------------|
| Goggles                    | Boiling tube       |
| Test tube                  | Large beaker       |
| Bung and delivery tube     | Test tube rack     |
| Magnesium ribbon           | Measuring cylinder |
| Hydrochloric acid (dilute) | Bunsen burner      |
| Wooden splints             | Test tube holder   |

## Method

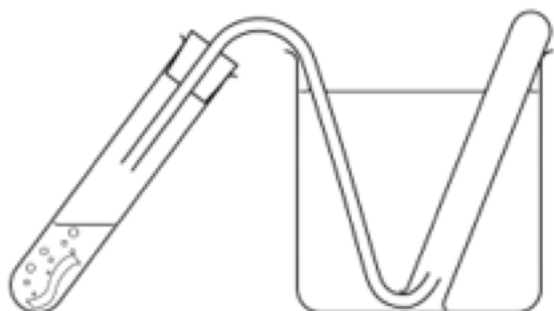
- ① Fill a test tube and beaker with water. Place your thumb over the end of the test tube and put it in the beaker upside down.



- ② Put the end of the delivery tube into the upside-down test tube, without letting any of the water out.



- ③ Measure 10cm<sup>3</sup> of hydrochloric acid and put it into a boiling tube. Stand the boiling tube in the test tube rack.
- ④ Drop the magnesium into the acid and put the bung on top of the tube



- ⑤ When the reaction finishes, light your Bunsen burner.
- ⑥ Test the gas using a lighted splint.



## Conclusions

- ① What gas was produced in this experiment. Explain your answer.
- ② What observation was made which proves a gas was created?
- ③ What does this observation tell you about gases.
- ④ Outline another method whereby the gas collected can be measured.