



Exploring Science

CHEMISTRY

hydrochloric acid + sodium hydroxide \longrightarrow sodium chloride + water



REACTION OF ACIDS WITH METALS

Many metals react with acids. When they do so, a salt and hydrogen gas are produced. Let's look at the reaction between zinc and hydrochloric acid.

zinc + hydrochloric acid \longrightarrow zinc chloride + hydrogen



Mandatory Activity 16

OC51

To investigate the reaction between zinc and hydrochloric acid, and test for hydrogen

Equipment

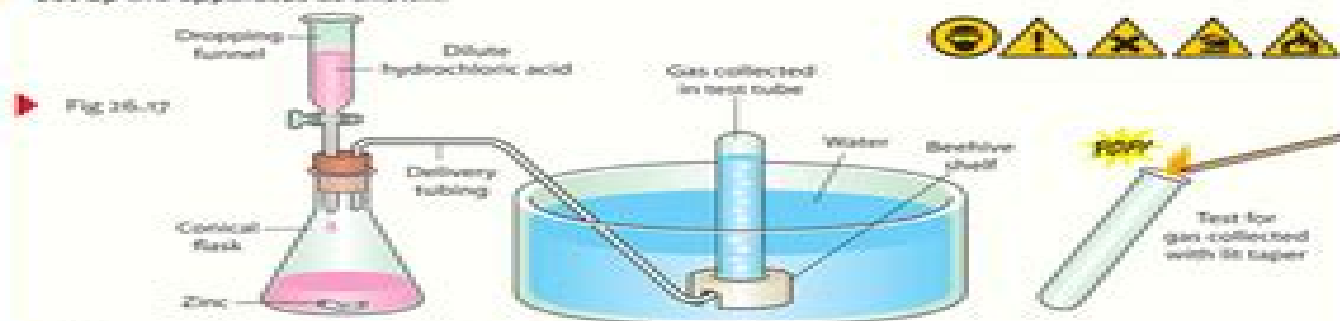
Conical flask, tap funnel, tubing, trough, test tube, taper, stopper, beehive shelf

Chemicals

Dilute hydrochloric acid, zinc, water

Method

- 1 Set up the apparatus as shown.



- 2 Fill the test tube with water and invert it on the beehive shelf.
- 3 Add the hydrochloric acid to the zinc.
- 4 Stopper the test tube while under water when it is filled with hydrogen gas.
- 5 Remove the stopper and immediately bring a lit taper to the mouth of the test tube.

Result

The gas burns with a loud popping sound.

Conclusion

Hydrogen gas burns with a pop. This is the conclusive test for the gas.



Junior Cert Science Teacher Guidelines

Richard Bailey



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