



# AQA GCSE Chemistry

## Topic 8: Chemical analysis

### Identification of common gases

#### Notes

(Content in bold is for Higher Tier only)





### Test for hydrogen

- Use a **burning splint** held at the open end of a test tube of the gas
  - Creates a '**squeaky pop**' sound (hydrogen burns rapidly)

### Test for oxygen

- Uses a **glowing splint** inserted into a test tube of the gas
  - Splint **relights** in oxygen

### Test for carbon dioxide

- Bubble the gas through the **limewater** (calcium hydroxide (aq))
  - it will **turn milky** (cloudy)

### Test for chlorine

- Use **damp litmus paper**
  - When damp litmus paper is put into chlorine gas the litmus **paper is bleached and turns white**

