

## 5-B Chemical Tests for Gases

- There are four chemical tests for gases.

### 1) A Test for Hydrogen Gas

$H_2$  + burning splint -----> loud “popping” sound

### 2) A Test for Oxygen Gas

$O_2$  + glowing splint -----> the splint bursts into flames

### 3) Two Tests for Carbon Dioxide Gas

a)  $CO_2$  + burning splint -----> the splint goes out

b)  $CO_2$  + limewater -----> the limewater turns milky  
[clear, colourless]

### 4) Test for Water Vapour

If a strip of cobalt chloride paper turns changes from blue to pink then water vapour is present at that source.