Gas Test Notes

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This is a very short set of notes that has the five gas tests that we are required to know. Please do learn these tests as they do come up in questions very regularly.

Test for Hydrogen Gas

Test: The lit splint test.

Method: Place a lit splint into the sample you are testing.

Positive result: A squeaky pop is heard. That is the answer the exam boards are looking for. You might see some flame but that will not get the mark. Use "squeaky pop".

Test for Oxygen Gas

Test: The glowing splint test.

Method: Place a glowing splint into the sample you are testing.

Positive result: The glowing splint relights. That is the answer the exam boards are looking for.

Test for Carbon Dioxide Gas

Test: The limewater test.

Method: Bubble the gas that you are testing through limewater.

Positive result: The limewater will go/turn cloudy.

Note: limewater is **aqueous calcium hydroxide.**

Test for Chlorine Gas

Test: The Blue litmus paper test

Method: Place damp blue litmus paper into a gas jar containing chlorine.

Positive result: The damp blue litmus paper turns red and is then bleached white.

Test for Water

Test: The anhydrous copper(II) sulfate test.

Method: Add a few drops of the liquid you are testing to white anhydrous copper(II) sulfate powder.

Positive result: The white powder will turn blue if water is present.

That's it 😊 Please do learn these.