



An Experiment with Carbon

See carbon in action with this fun experiment you can do at home

What you will need

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| 1 Empty Bottle | 2 Tablespoons of Vinegar |
| 40ml of Water | 1 Teaspoon of Baking Soda |
| 1 Balloon | 1 Drinking Straw |

What to do

- Stretch out the balloon so that it can inflate easily.
- Add your Water and Baking Soda to the bottle, mix together using the drinking straw.
- Add vinegar and quickly cover the bottle with you balloon.

What you will see

The balloon will start to expand on its own as there is now a reaction going on inside the bottle that is giving off the gas carbon dioxide.



An Experiment with Oxygen

See Oxygen in action with this fun experiment you can do at home

What you will need

A leaf

A Clear glass of water

Sunlight

What to do

- Place your leaf in a clear glass of water and leave it in a place full of sunlight.
- Leave this glass where it is for a least an hour
- Come back and see the results!

What you will see

You should see bubbles forming on the sides of the glass and leaf. These bubbles are actually oxygen bubbles. This is done during photo-synthesis which is when a plant takes the carbon dioxide from the air to help make its food, while doing this it turns the carbon dioxide into oxygen and releases it back into the air.



An Experiment with Calcium

See Calcium in action with this fun experiment you can do at home

What you will need

1 Egg
1 cup of Vinegar
A glass of Water

What to do

- Take your glass of Water add your 1 cup of vinegar to the water.
- Place your egg into the glass, it should begin to fizz. Once the fizzing has stopped look at the results.

What you will see

You should see that the egg's shell has vanished. This is because the vinegar has reacted with the calcium carbonate in the egg shell causing calcium acetate to form at the bottom of the glass. You will also notice the egg is slightly see through and rubbery.