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POWERING THE FUTURE

Capturing Carbon

GLASGOW SCIENCE CENTRE

You are going to investigate carbon dioxide.

To do this, you will use a chemical reaction to make carbon dioxide and capture it in water.

Setup Instructions

Resources per group or pupil

- 3 x cups or glasses
- 4 x teaspoons of bicarbonate of soda
- Teaspoon
- 90mL water
- 100mL lemon juice
- Tablespoon
- Tray

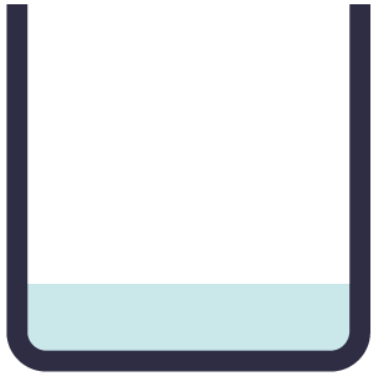
Be careful with lemon juice.

It will sting if it gets into your eyes or any cuts.

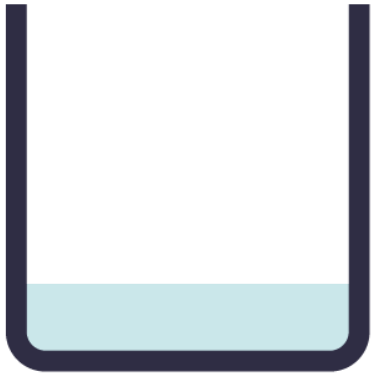
Do not eat or drink anything used in the experiment

Setup Instructions

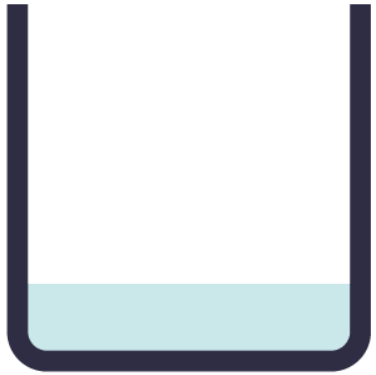
1. Place 3 cups on a tray. Put 2 tablespoons of water in each cup.



Cup A



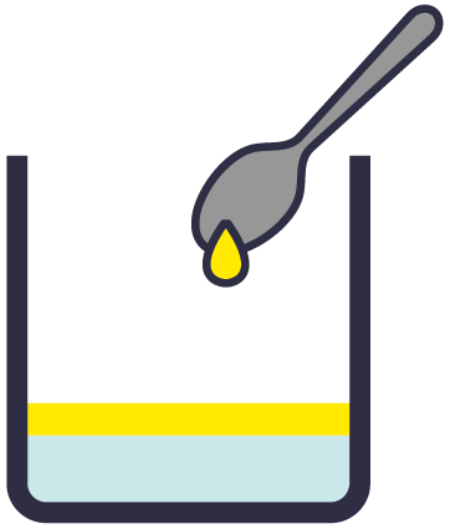
Cup B



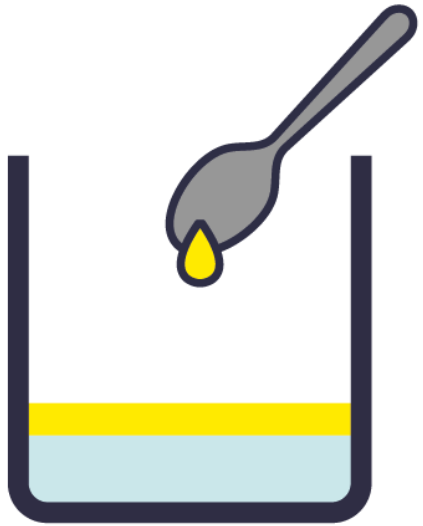
Cup C

Setup Instructions

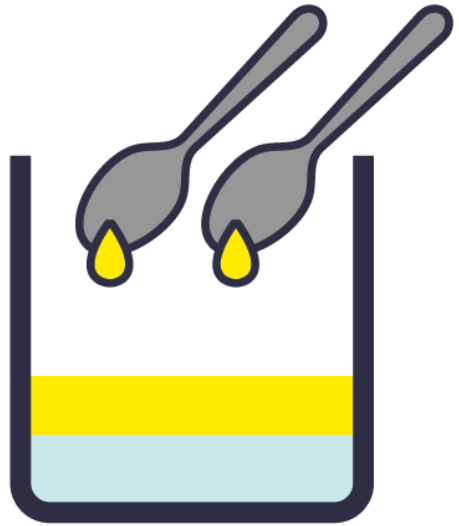
2. In cup A, add 1 tablespoon of lemon juice.
   In cup B, add 1 tablespoon of lemon juice.
   In cup C, add 2 tablespoons of lemon juice.



Cup A



Cup B



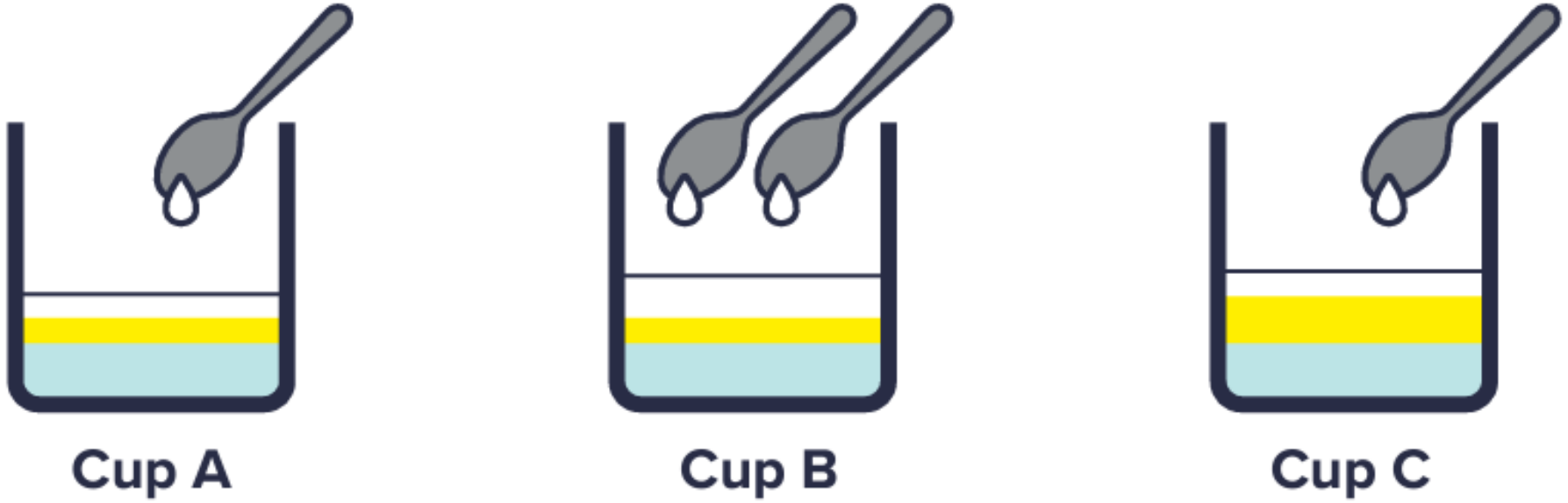
Cup C

Setup Instructions

3. In cup A, add 1 teaspoon of bicarbonate of soda.

   In cup B, add 2 teaspoons of bicarbonate of soda.

   In cup C, add 1 teaspoon of bicarbonate of soda.



Using your worksheet, observe what is happening in each cup and write down your answers.

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Carbon Capture 2

Designing Carbon Capture

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Setup Instructions

Resources per group or pupil

- Teaspoon
- Tablespoon
- Water
- Balloon
- 250ml plastic bottle
- Bicarbonate of soda
- Lemon juice
- Tray

Setup Instructions

You are going to design an experiment that will allow you to capture carbon dioxide.

To do this, you will use the balloon and plastic bottle.

After you have tried your design, use your worksheet to write a scientific report on it.

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