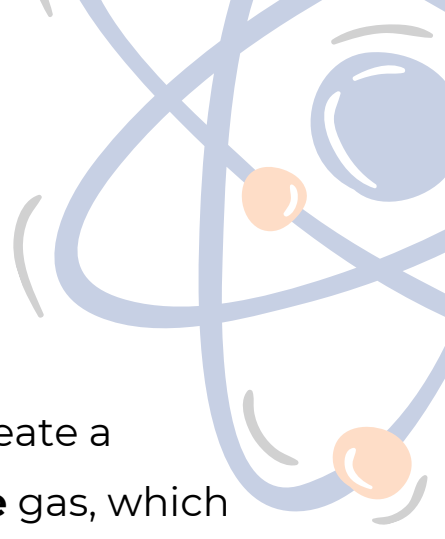
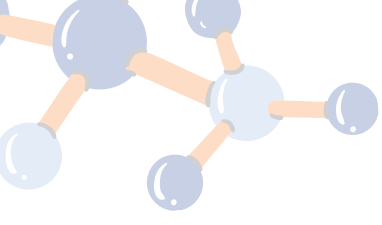




The Science Behind the Experiment:

When baking soda and vinegar combine, they create a **chemical reaction** that produces **carbon dioxide** gas, which causes all the bubbles to form and foam up. The dish soap traps the gas bubbles, creating lots of frothy foam. This fun Halloween experiment helps kids understand how different substances react with each other to create new things—like a witches brew that bubbles and **fizzes**!

We're going to make a magic potion that bubbles and fizzes like a witches brew! When we mix baking soda and vinegar, it makes lots of bubbles and foam, because it creates gas. It's a fun way to see how different things combine to make something new!

Definitions

Chemical Reaction: When two or more things mix together and create something new.

Carbon Dioxide: A gas that is made when baking soda and vinegar mix, causing bubbles.

Fizzing: The bubbling sound and action made by gas escaping from a liquid.



Materials:

- Baking soda (1 tablespoon)
- Vinegar ($\frac{1}{2}$ cup)
- Green or purple food colouring
- Dish soap (1 teaspoon)
- A clear jar or cup
- A spoon
- Halloween decorations (plastic spiders, toy eyeballs, etc.)



Instructions:

1. Start by decorating your jar or cup with Halloween-themed stickers, creepy faces, or place some plastic spiders and toy eyeballs around and inside it to make it extra spooky.
2. Fill the jar about halfway with vinegar. Add a few drops of food colouring to make it look like a magical potion—green or purple works best for a witch's brew!
3. Squirt a teaspoon of dish soap into the mixture and stir gently with a spoon.
4. Now, for the fun part! Add a tablespoon of baking soda to the jar and watch your witch's brew bubble and fizz over the top like a magical potion coming to life!
5. If the bubbling stops, add more baking soda or vinegar to keep the fun going.