

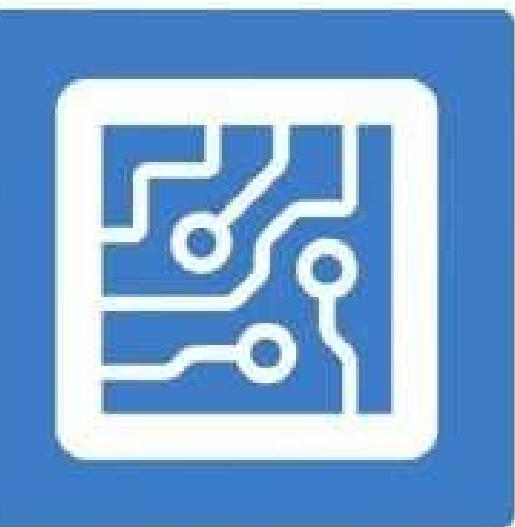
THE YOUNG WOMEN IN SCIENCE PROJECT

BY JIMENA FURIE

WHAT IS STEM?



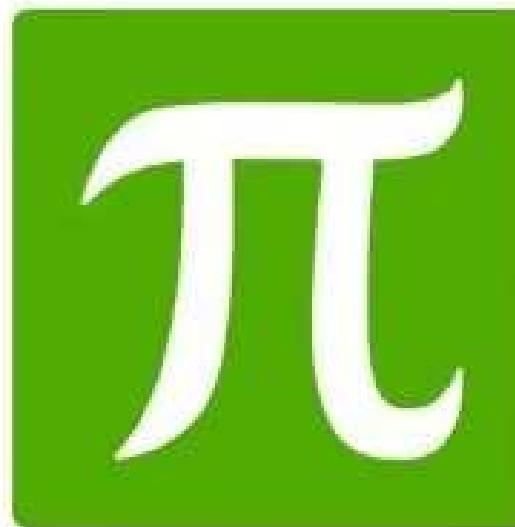
SCIENCE



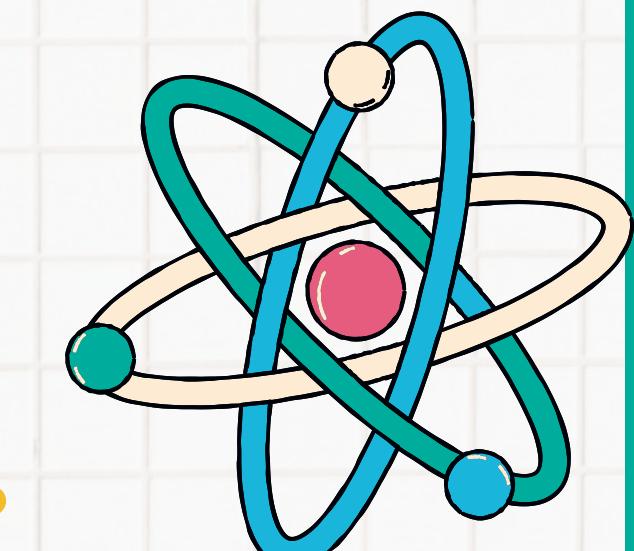
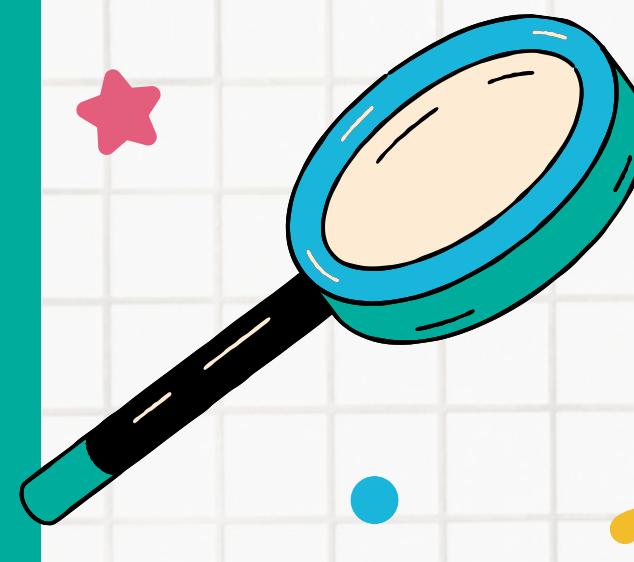
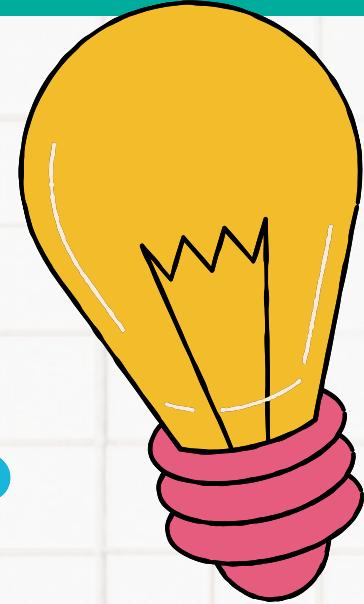
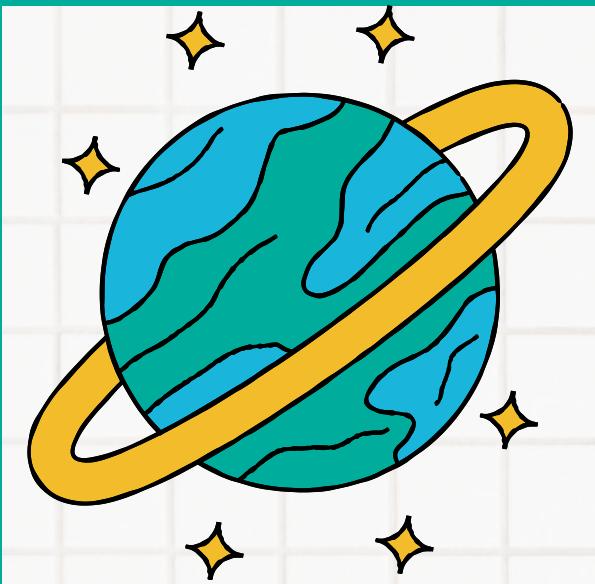
TECHNOLOGY



ENGINEERING

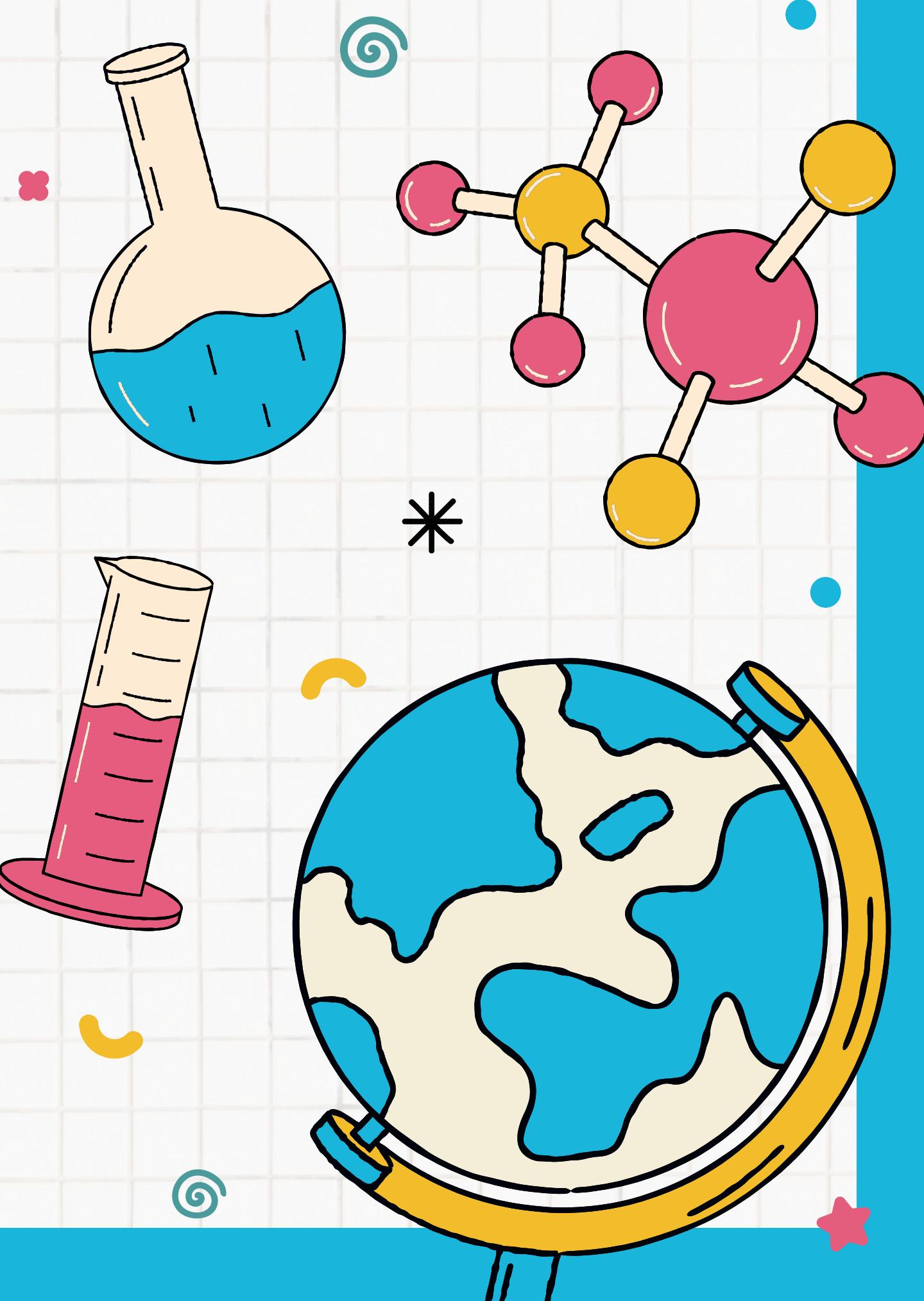


MATHEMATICS



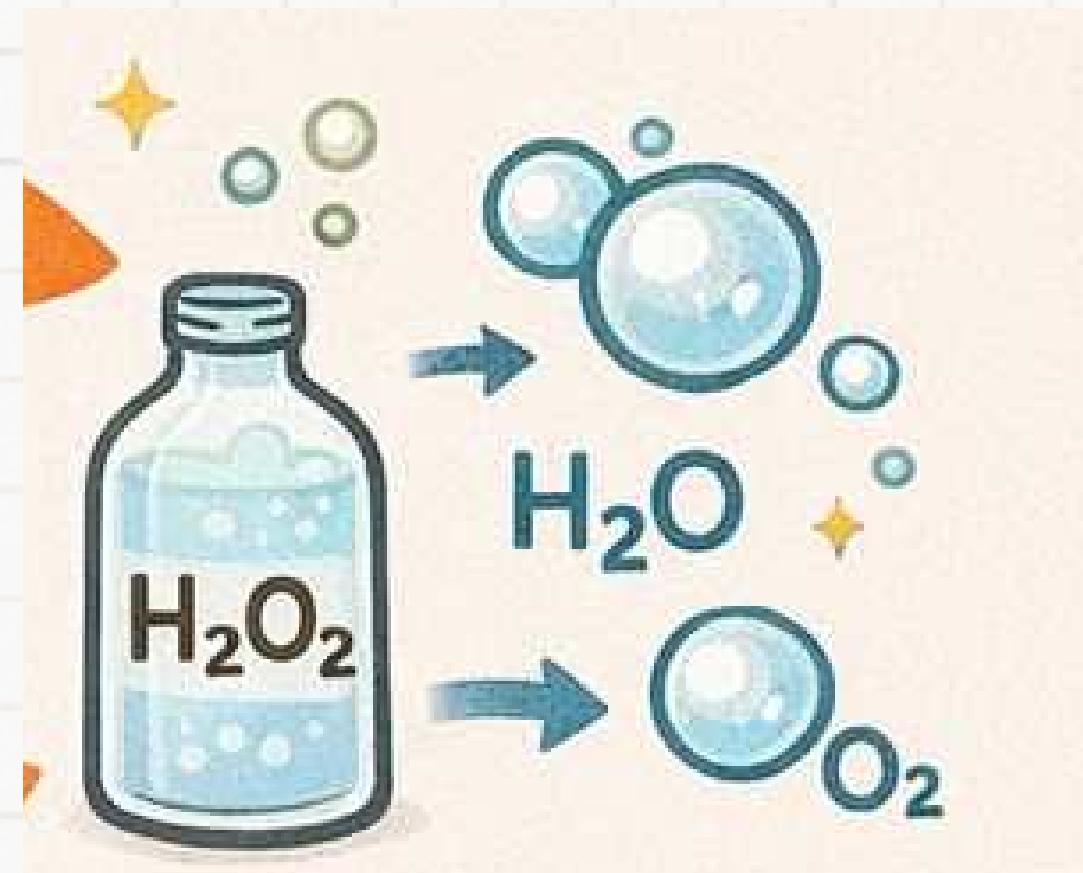
02

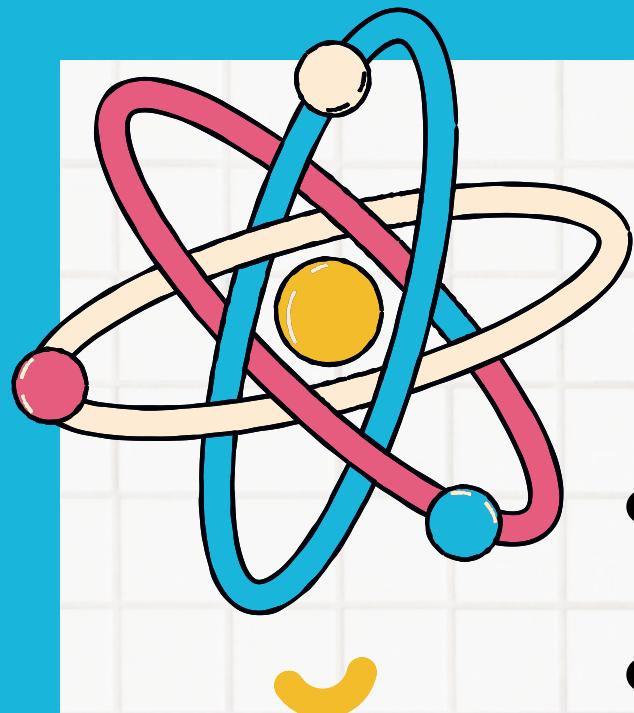
ELEPHANT TOOTHPASTE



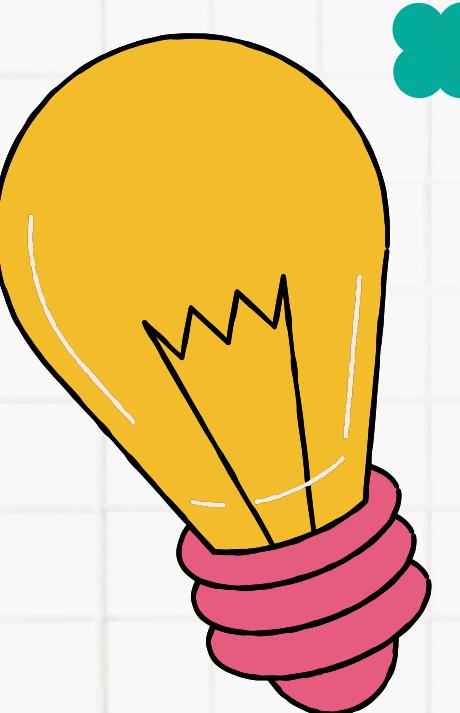
WHATS HAPPENING BEHIND THE EXPERIMENT

- Hydrogen peroxide breaks apart into water and oxygen gas
- Yeast helps the reaction happen faster (it's a **catalyst**)
- Dish soap traps the oxygen gas and makes foam
- When new substances form, that's called a **chemical change**

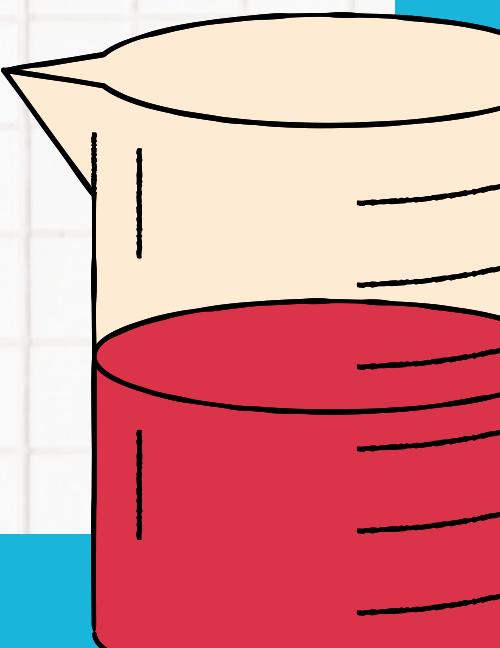




MATERIALS



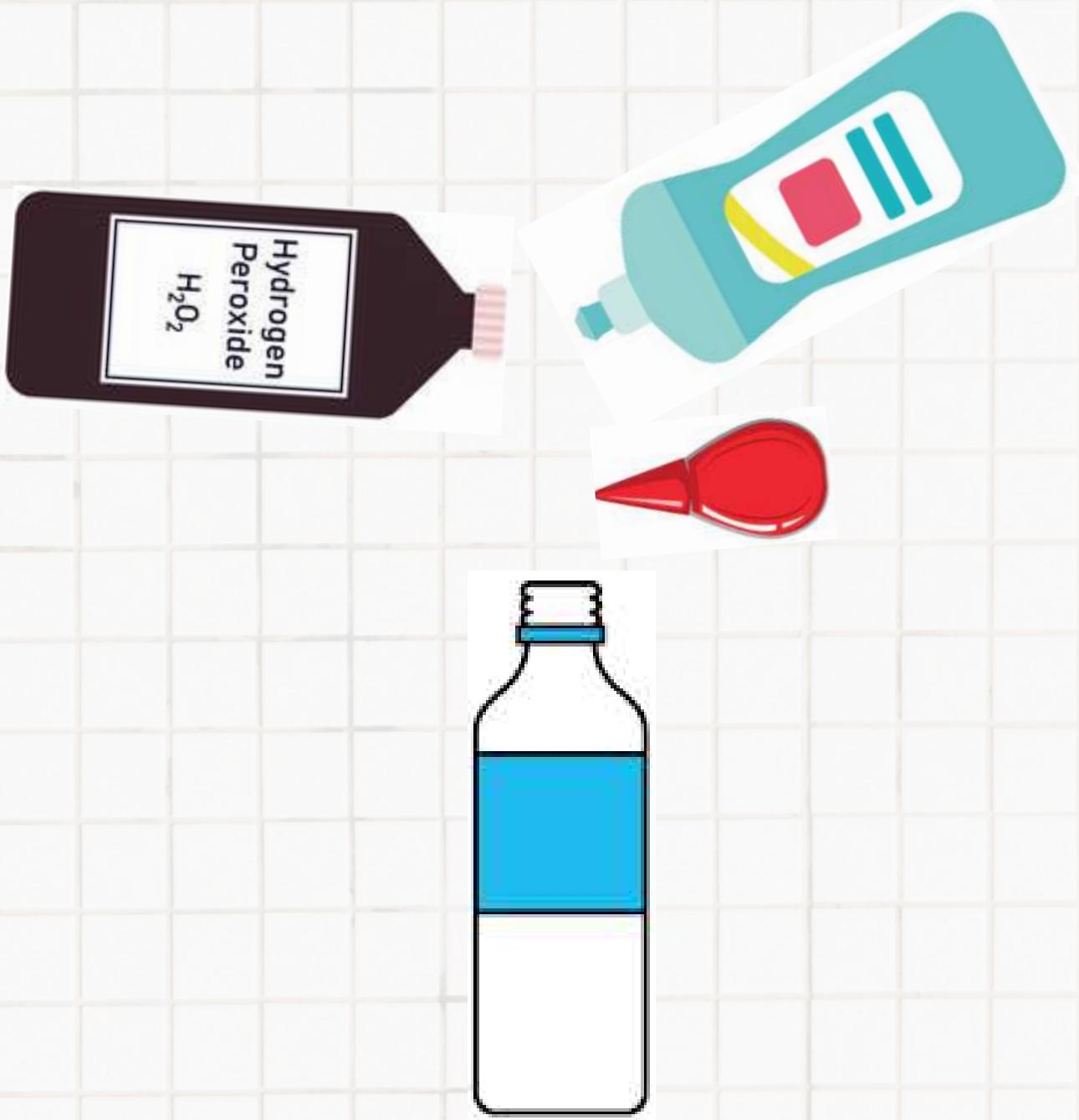
- 1 empty plastic bottle (12–16 oz)
- $\frac{1}{2}$ cup 3% hydrogen peroxide
- 1 tablespoon dry yeast
- 3 tablespoons warm water
- A squirt of dish soap
- Food coloring (optional)
- Funnel (helpful)
- Tray or pan (for mess)
- Safety goggles (recommended)



Fiona Reeves

STEP 1

- Place the empty bottle on a tray.
- Add:
- $\frac{1}{2}$ cup hydrogen peroxide
- A squirt of dish soap
- A few drops of food coloring
- Gently swirl to mix.



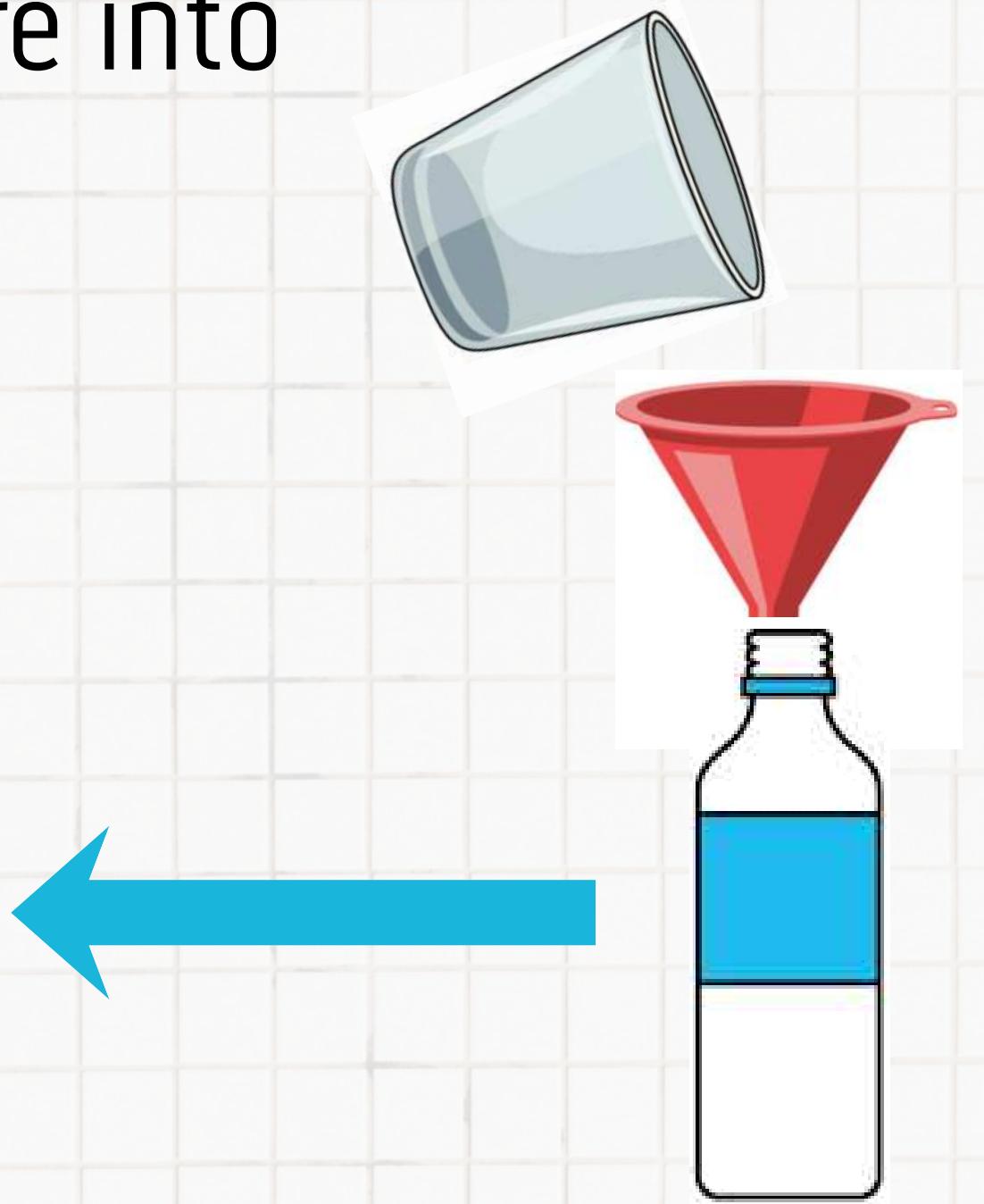
STEP 2

- In a small cup:
- Mix 1 tablespoon yeast with 3 tablespoons warm water
- Stir gently
- Let it sit for 5 minutes



STEP 3

- Use a funnel to pour the yeast mixture into the bottle.
- Then wait for the reaction!



DISCUSSION QUESTIONS

- What did you notice happening?
- Why do you think the bubbles formed?