



- STEM ACTIVITY -

POW! ELEPHANT TOOTHPASTE

Key Concepts: Chemistry, engineering, exothermic reaction

Introduction

Elephant's toothpaste is a foamy substance that's created when you combine water, hydrogen peroxide, yeast/ potassium iodide, and dish soap. It is commonly used in classrooms to demonstrate an exothermic reaction.

Materials *(check the boxes if you have all)*

- Empty plastic bottle
- Dry yeast
- Warm water
- Liquid dish soap
- Liquid food coloring
- Hydrogen peroxide
- Measuring cups and spoons
- Safety glasses
- Large tub or tray to catch the foam,

Instructions

- Pour 1/2 cup of hydrogen peroxide into the bottle.
- Add a big squirt of dish soap into the bottle, and swirl gently to mix.
- If you want to make your foam a single color, add a few drops of food coloring directly into the hydrogen peroxide, and swirl the bottle gently to mix.
- In a measuring cup, mix together 1 tablespoon of yeast and 3 tablespoons of warm water. Stir for about 30 seconds.
- Pour the yeast mixture into the bottle, then quickly step back and watch your reaction go!



 Write Your Observations