

Elephant's Toothpaste Instructions

Materials:

- Beaker/Plastic soda bottle
- Hydrogen Peroxide
- Packet of dry yeast
- Warm water
- Liquid dish soap
- Small bowl
- Plastic tub
- Funnel (optional)



Instructions:

- Put the beaker/soda bottle inside the plastic tub
- Add in $\frac{1}{2}$ cup of Hydrogen Peroxide into your beaker/bottle (**Please have an adult or someone 16 years or older help with this step**)
- Add 8 drops of your favorite food coloring into the beaker/bottle
- Add 1 Tablespoon of liquid dish soap into the beaker/bottle and swish it around to mix the food coloring, peroxide and dish soap together
- In a separate small bowl, combine 3 Tablespoons of warm water and the packet of dry yeast together and mix for about 30 seconds
- Pour the yeast water into your beaker/bottle and watch the foam reaction begin!

How it works:

- When hydrogen peroxide breaks down, it turns into oxygen (O_2) and water (H_2O). Normally this breakdown happens very slowly. By adding a catalyst (yeast) you help break down the hydrogen peroxide rapidly into water and oxygen gas. The oxygen gas forms bubbles. These bubbles would usually escape from the liquid and pop quickly, but by adding a little dish soap it provides surface tension, allowing the bubbles to get trapped and creating lots of foam.