

Clifford's Toothpaste Science Experiment

MATERIALS:

Plastic bottle (soda bottles and water bottles work well)

Dish soap

1/2 cup hydrogen peroxide – 6% is best but 3% will work, the reaction will just be less.

1 tsp yeast

2 Tbs warm water

Food coloring

Pan or bowl to contain the foam

INSTRUCTIONS:

Step 1. Mix Yeast and Warm Water

Pour yeast into a small bowl with the warm water. Make sure the water is warm, but not too hot! The goal is to activate the yeast. Give it a little stir and then set aside. It should get foamy on top.

Step 2. Mix Hydrogen Peroxide, Dish Soap and Food Coloring

Set your plastic bottle into your pan and carefully pour in the hydrogen peroxide, a little bit of dish soap (about a tablespoon or so), and a few drops of food coloring.

The more food coloring you add, the more vibrant your foam will be when it erupts from the bottle.

When those ingredients have been added, give your bottle a little swirl to mix everything together.

Step 3. Add the Yeast and Watch the Reaction!

Use a small funnel to pour the yeast mixture into the bottle. If you don't have a funnel, a small measuring cup with a little spout works just as well.

Stand back and watch the reaction!

(Before adding the yeast, however, you want to make sure that the yeast has been activated. It should have a decent amount of foam on the top of the mixture, if there's foam, you're good to go!)

Did you make enough "toothpaste" for Clifford to brush his teeth?

***The foam may be warm, even hot, at first. Once it has cooled off it is safe for children to touch the "toothpaste". If your child has sensitive skin or allergies, you may want to limit contact or use gloves.*