

# Elephant Toothpaste

## SCIENCE EXPERIMENT

### LESSON 1



**Purpose:** This activity will add a fun element to the service and will engage the children's attention.

**Description:** The children will watch an engaging experiment conducted by the Teacher and Co-Teacher to capture the children's attention and imagination.

**Materials Needed:** For this activity you will need this Help Sheet, two safety goggles, one 16 ounce empty plastic soda bottle (*preferably with a narrow neck such as those made by Coca-Cola®*), 1/2 cup of 20-volume hydrogen peroxide (*20-volume is 6% solution and can be purchased from a beauty supply store or online from Walmart®*), one squirt of Dawn Dishwashing Soap®, three to four drops of food coloring, one teaspoon of yeast dissolved in two tablespoons of very warm water, one funnel, one foil pie tin, and one table to perform the experiment on. See more at: <http://www.stevespanglerscience.com/lab/experiments/elephants-toothpaste#sthash.hcODBuz8.dpuf>.



**To introduce this activity at the beginning of service, say the following:**

1. Today's experiment is called Elephant Toothpaste.
2. I'm going to pour this in here, and pour that in there...perfect!

*Note: At the beginning of service the Teacher will come out from backstage whistling. Stand the bottle up in the center of the pie tin. Pour 1/2 cup of hydrogen peroxide into the plastic cup and add food coloring. Then pour the mixture into the plastic bottle using the funnel. Finally, squirt the soap into the bottle as well. Once the Teacher has prepared the experiment, the Co-Teacher will enter and service will officially begin. During the Skit and Bible Lesson Video you will want to get the warm water for the experiment.*

**For detailed instructions on how to do this activity, see the Teacher/Co-Teacher Training Video.**



**During the activity in the middle of service, say the following:**

1. It's almost time to go to our Scientific Groups but before we do, let's take a look at today's Science Experiment.
2. So you know that elephant that we keep in the backyard? I was looking at his teeth the other day and they need to be brushed. I tried to use regular toothpaste but it didn't work. I went online to find a toothpaste that would work and it came up with this solution.
3. Go ahead and put your safety goggles on.
4. Wow! Look at that elephant toothpaste.

*Note: Pour the yeast into the warm water and swirl it around. Pour the yeast and water into the plastic bottle with the other ingredients that were mixed at the beginning of service; this will cause the reaction.*



**After the activity, say the following:**

Now it is time for our Scientific Groups. And while you are in your groups, we are going to go and brush our elephant's teeth!