

Obtained from fotki.yandex.ru

Elephant Toothpaste

Supplies Needed:

- Large bottle or flask (an empty water or soda bottle will work well!)
- 1 teaspoon- yeast
- 2 tablespoons- warm water
- ½ cup- 6% hydrogen peroxide
- 5 drops- food coloring
- ½ tablespoon- dish soap (or a squirt from the bottle)
- Small bowl for mixing yeast
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Instructions:

1. Mix warm water and yeast together in a small bowl
2. Mix the hydrogen peroxide, food coloring and dish soap in the large bottle or flask
3. Pour the yeast mixture into the flask and watch as your creation grows.

What did you learn?

You just witnessed a chemical reaction! Chemical reactions are the processes that change one substance into another. In this reaction hydrogen peroxide is converted into water and oxygen.

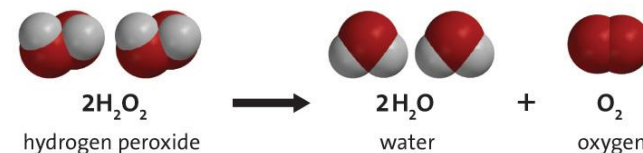
The net reaction can be written as: $2\text{H}_2\text{O}_2(l) \rightarrow 2\text{H}_2\text{O}(l) + \text{O}_2(g)$

What would happen if we used more hydrogen peroxide?

What do you think would happen if we forgot to add soap? Take a moment to try it! If you tried it you would notice that nothing really happened. Why? The soap caught the oxygen in the bubbles, as the bubbles grow, so does the elephant toothpaste!

If soap is not there to catch the bubble the oxygen is released into the air.

Can you think of any other chemical reactions that happen around you?



Obtained from socratic.org