

Create Your Own Exploding Volcano!

Introduction

This exploding volcano is a fun, crafty scientific experiment! Enjoy creating your very own volcano before setting off a mini eruption!

You will need :

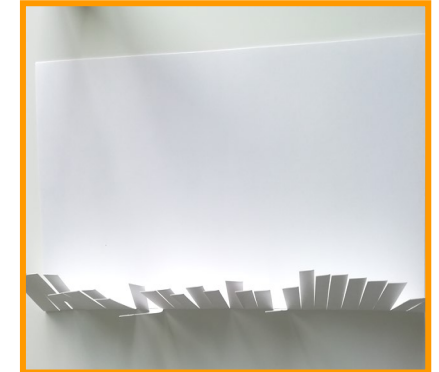
- Card
- Scissors
- A ruler
- Sticky tape
- Pens / pencils to decorate
- Toilet roll tube
- Elastic band
- Old plastic bag / cling film
- 50ml vinegar
- 2 spoons baking powder / bicarbonate of soda
- 3 drops red, yellow or orange food dye
- A squirt of washing up liquid
- A dish or container *for the eruption to take place on



1. Draw a straight line roughly 6cm in from the long edge of your piece of paper.



2. Using scissors, cut into the piece of paper up to the line. Each cut should be about 1cm apart. This will create a frilled edge.



3. Bend the frilled edges up.



4. Turn over the paper and decorate the non-frilled section. The frills should be bent at the top of your decoration. This will be the outside of your volcano.



5. Curl the sheet of paper so that it creates a cone shape. The frills should be in the centre (crater) of the volcano. This is where your toilet roll tube will sit, so make sure the tube will fit snugly before sticky-taping it together.



6. Cut your toilet roll tube to 1/3 its original size. Cut a square out of your old plastic bag or clingfilm. Put it tight across one of the tube holes and secure it with an elastic band. Trim any excess plastic bag / cling film.

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7. Lift out some of the frills. These will be used to secure the tube in place.



8. Slip the tube into the top of your volcano. If it won't hold tight, glue or sticky tape some of the frills to the inside of the tube.



9. Place the bicarbonate of soda/ baking powder into the volcano. *We recommend putting the volcano into a dish or bowl to avoid mess during the eruption.



10. In a separate cup, mix the vinegar, washing up liquid and food colouring. Stir the mixture and get ready to pour it slowly into the volcano...



11. Add the mixture to the toilet roll tube and watch your volcano **ERUPT!**

Explore more... Create some more volcanoes. What happens if you try different amounts of the vinegar or baking powder / bicarbonate of soda? Does the eruption change? Could you change the materials you used? What if you swapped the toilet roll tube for a bottle cap?