

# Apple Eruption

Bobbing for apples is an absolute classic at Halloween but why not try something different this year and make yourself an Apple Eruption instead.

## What do I need:

- Apple
- White vinegar
- Baking powder
- Green food colouring
- Plate
- Knife

## How do I do it?

**STEP 1** - The first thing is to make our apple volcano and we'll need to have an adult help out. Get an adult to carefully carve out a hole in the top of your apple.

**STEP 2** - Fill about half of the hole you just made with 3 teaspoons of baking powder.

**STEP 3** - Place your apple on a plate or somewhere that you don't mind making a mess.

**STEP 4** - Mix a few drops of green food colouring into your white vinegar to make things even more disgusting.

**STEP 5** - Let's start our Apple Eruption! Fill the rest of the hole in the top of your apple with green vinegar...

**STEP 6** - Sit back and relax and enjoy your Apple Eruption.

## What's going on?

Hope you enjoyed your Apple Eruption but what's going on?

This is a Halloween twist on the classic volcano experiment. It's the age-old 'acid/base' reaction. Our white vinegar is our acid and the baking powder is our 'base' (otherwise known as an alkali).

When the acid and the base mix together we get a chemical reaction. We can tell there's a chemical reaction going on because of all the bubbles we can see within our 'green lava' as it flows over our apple. These bubbles are full of carbon dioxide.

## More Fun Please - Experiment like a real scientist!

- What other (safe!) acids could you test out instead of white vinegar?
- What's the perfect combination of baking soda and vinegar to make the perfect Apple Eruption?

