

The volcano is erupting!



During their adventure on Zakoria, Bernie and Lexi are there live when a huge volcano erupts. Do you know how something like that happens?

There are huge plates of rock at the core of the earth. It is very hot there and there is a lot of pressure. This can cause the rock to melt sometimes, in other words it turns to liquid. The melted rock is called magma. As a result of the pressure the magma is pushed upwards - similar to the way a bottle of mineral water overflows if you open it after it has been shaken.

If there is no more room left, the magma is pressed upwards through cracks in the earth's crust - a volcano forms. Incidentally, as soon as the magma pours out, it is no longer referred to as magma, but instead lava.

We are going to show you today, how you can let your own mini volcano erupt!



What you need:

- 2 small empty bottles or thin vases
- A funnel
- 3 packets of baking powder
- Sand
- Half a cup of vinegar
- Half a cup of water
- Red food dye
- A dash of washing-up liquid
- A casserole dish or other big bowl as a base



What to do:



1.

Pour the baking powder into one of the empty bottles using the funnel. Then place this bottle in the middle of a bowl so that your volcano eruption doesn't make a mess everywhere.

2.

Take the sand and build a volcano hill around the bottle. It is best to wet the sand a little so it stays in position. Make sure the opening of the bottle stays clear.



3.



Now pour the vinegar and the water into the second bottle using the funnel. Use the food dye to make the mixture a nice red. Furthermore, add a dash of washing-up liquid so that it foams nicely.

4.

Ready for the eruption? Pour some of the vinegar mixture into your volcano slowly and carefully and see what happens!



Why does the mini volcano erupt?

When the baking powder comes into contact with the vinegar, a gas called carbon dioxide is formed. This gas expands rapidly - there is no longer enough space in the bottle, so the "lava" pours out of the volcano.

Do you recognise the resemblance to a real volcano? There is not enough room there either, which is why the pressure pushes the magma out of the volcano.

