

Water Volcano in a Bottle

1. Put the balloon inside the bottle and stretch the end around the opening. Try to blow up the balloon – you won't be able to!
2. Cut a ¼ inch hole in the side of the bottle near the bottom and try again. The balloon will inflate as the air inside the bottle can escape through the hole. If you put your finger on the hole it will lock the pressure and keep the air inside.
3. While the balloon is blown up (with your finger over the hole) fill the balloon with water.
4. When you're ready, move your finger to start your water volcano!

Put the lid on your bottle to keep the balloon inflated without having to cover the hole. The balloon needs both holes uncovered to deflate!

THE SCIENCE

The balloon won't inflate much the first time because the bottle is already filled with air. There's no room for the balloon to expand inside the bottle. However, when you put a hole in the bottle, the air is pushed out as the balloon fills the space inside. As long as you plug the hole, the balloon stays inflated. When you take your thumb off the hole, outside air flows back into the bottle which pushes air (or water!) out of the balloon.

You will need:

- 2l plastic bottle
- Balloon
- Water



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