

# Tornado in a Bottle

You will need:

- Two empty plastic bottles (same size)
- Either a metal washer or a sharp knife
- Strong tape
- Water
- Glitter (optional)



1. Fill 1 bottle about two thirds full of water.
2. You have two options here. Either place a metal washer between the two bottles and use strong tape to join the bottles together. Alternatively, ask an adult to use a sharp knife to cut a hole in the plastic lid of one bottle before taping the bottles together.
3. Tip the bottles so the full bottle is on top.
5. Quickly move the top bottle in a swirling motion to create your tornado.

## THE SCIENCE

If you've ever watched the water drain from the bath, you've seen a vortex. A vortex is a type of motion that causes liquids to travel in spirals around a centre line. The vortex in this experiment is created when gravity pulls the water through the opening to form a rotating tornado.

4. You can also add glitter to the water to make your tornado stand out.

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