

Water power

Brief summary:

In this activity you will experiment with water energy by creating a water turbine out of a plastic bottle.

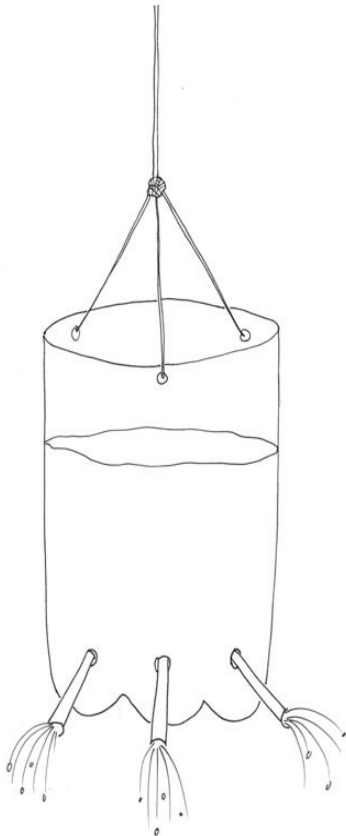
You will need:

- Large plastic bottle
- Pencil or knitting needle
- Straws
- Tape
- String
- Water
- Help from an adult

What to do:

Step 1. Cut off the top of a large plastic bottle. If you find it a bit tricky, ask an adult to help you.

Step 2. Make six holes around the base of the bottle with a pencil or knitting needle. Try to make sure these holes are as evenly spaced as possible. Again ask for adult help if you find this tricky.



Step 3. Cut a straw into six even pieces and insert these into the holes in the bottle and secure them with some tape.

Step 4. Make three holes (evenly spaced) at the top of the bottle (ask for the help of an adult if you need) and put a string through each of these holes. Tie the three strings to a fourth piece of string.

Step 5. Over the sink or outside, pour a jug of water in the bottle. What happens? When the water is pouring out of the straws, the bottle should spin around.

Take it further:

Repeat the experiment with more or fewer holes in the bottle – what happens?

Big questions:

- How can we use water to make electricity?
- What other types of renewable energy are available?

