



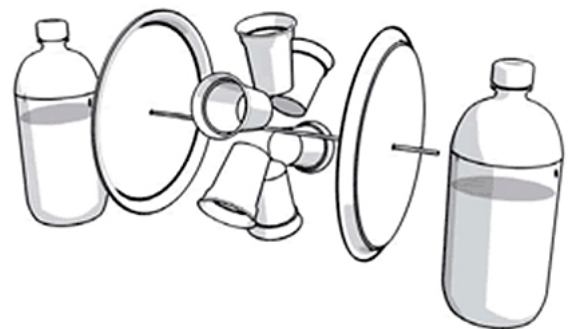
THE POWER OF WATER

Make a water wheel

Follow these instructions to make a simple model of a water wheel.

What you will need:

- 2 x disposable plastic dinner plates (260mm in diameter)
- 6 x 240ml capacity disposable plastic drinking cups
- stapler
- 2 x 2L soft drink bottles half filled with water or sand
- wooden skewer (extra-long, or two taped together) or a long piece of dowel
- hand drill or a sharp object to make a small hole in the soft drink bottles
- pencil
- protractor
- ruler
- jug
- water
- sink or wet area to test the models



Instructions:

1. Use the protractor and pencil to find the centre of each disposable plate.
2. Poke the wooden skewer through the centre of each plate to make a hole. Remove the skewer while you attach the cups.
3. Working from the centre, mark out six equal segments on one plate.
4. Use the stapler to attach the cups to the plate at an angle, ensuring that the open end of the cup is facing up (see image 1).
5. Once the cups are in place, staple them to the other plate to make the 'wheel'.

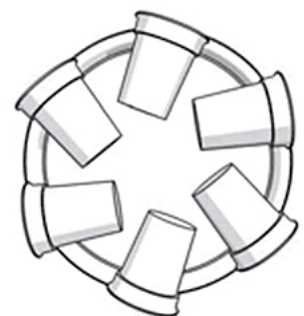


image 1



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6. Thread the skewer through the two plates to make an 'axle'.
7. Make a hole in each of the soft drink bottles (using a hand drill or sharp object) and push the skewer through to support the wheel (see image 2). Try to ensure these holes are at equal heights.
8. Fill the jug with water and pour it into one of the cups to begin the water wheel process (see image 3). Make sure you place the wheel in a tub or sink to test it .



image 2

Safety tips:

- Do not use water near electricity.
- Make sure you have towels handy in case you spill any water.
- Use all tools sensibly and safely.



image 3