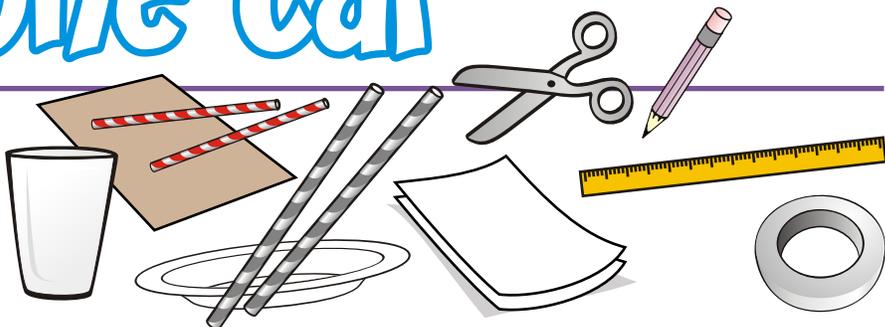


Gone Car

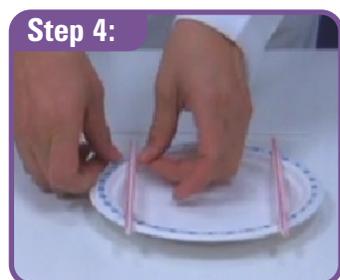
What you need:

- Round-bottom drinking cup
- Cardboard
- 2 Jumbo straws
- 2 Regular straws
- Paper (2 sheets)
- Paper plate
- Pencil
- Scissors
- Ruler
- Tape



What you do:

- Step 1:** Use the cup bottom as a template to draw four circles on the cardboard. These are your wheels. Draw one more circle on the piece of paper, and cut it out.
- Step 2:** Fold the paper circle in half twice, and unfold it. Use a pencil to poke a hole at the middle point where the fold lines cross.
- Step 3:** Cut out the wheels. Use the paper circle to mark the centers, and use a pencil to poke a hole in the center of each wheel.
- Step 4:** Cut the jumbo straws so they are about 2cm (3/4") shorter than the regular straws. Tape a jumbo straw to each end of the plate. Use a ruler to make sure they are parallel.
- Step 5:** Push a wheel onto the end of a regular straw. Repeat for the second regular straw. Slide each regular straw into a jumbo straw, and then put the other two wheels on. Flip the plate onto its wheels to make sure it rolls easily.
- Step 6:** Make a paper cone, and tape it on top of the plate. You made a cone car!
- Step 7:** Blow into the cone to propel your car.



What's going on:

You made a wind-powered car! The cardboard wheels spin around the straw axles, and the cone acts like a sail. The pointed end of the cone reduces drag by parting the air as the car moves forward. The open end of the cone catches the air that you exhale and pushes the car forward.

Now try this:

What happens if you attach the cone at an angle, or change its size? Try changing your cone car to see if you can make it go faster!

