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An extract from

# Big Book of Science Things to Make and Do

Written by

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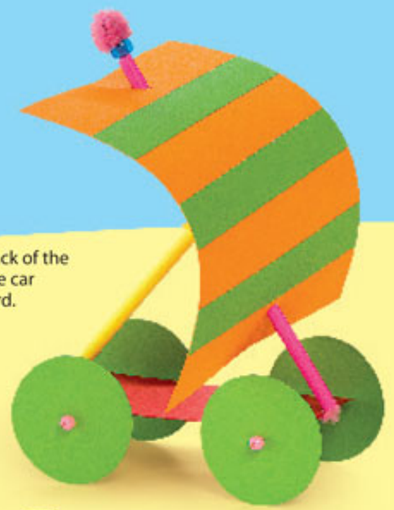
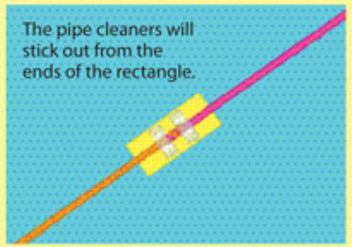


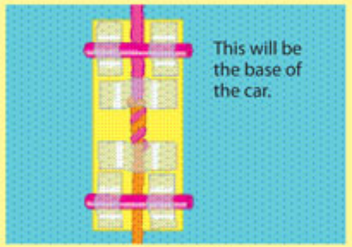
Blow on the back of the sail to make the car whoosh forward.

# Sail Cars

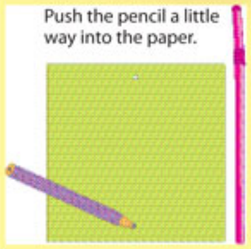
YOU WILL NEED: thin cardboard, two pipe cleaners, three bendy drinking straws, big beads, toothpicks, small beads



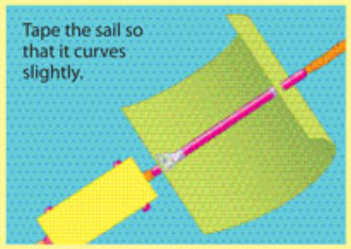

1. Cut a 5 x 11cm (2 x 4in) rectangle of thin cardboard. Twist together the ends of two pipe cleaners, then tape them onto the rectangle.



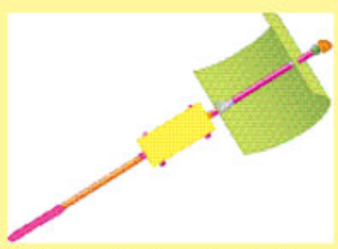

2. Cut two 6cm (2½in) pieces from a drinking straw. Then, tape the straws across the rectangle, over the pipe cleaners, like this.



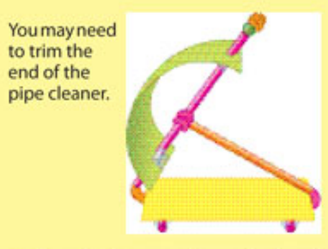

3. Cut a square paper sail the length of the bottom part of a bendy straw. Use a sharp pencil to make a hole at the top and bottom of the sail.




4. Cut the top off the bendy straw to make a tall mast. Slide the sail on and tape it in place. Slide the mast onto one of the pipe cleaners.



5. Push a big bead onto the pipe cleaner and twist the end. Then, cut an 11cm (4in) piece from another straw and slide it onto the other pipe cleaner.

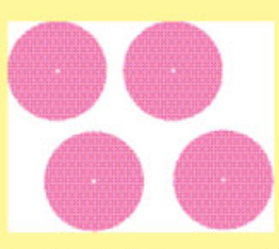



6. Bend the mast and short straw over the top of the base. Twist the end of the pipe cleaner around the middle of the mast to hold it in place.

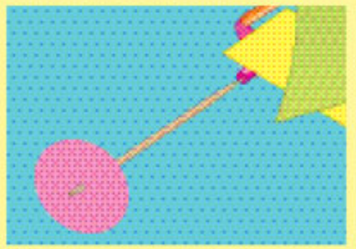
You and your friends could make sail cars and race them.

## Wind power

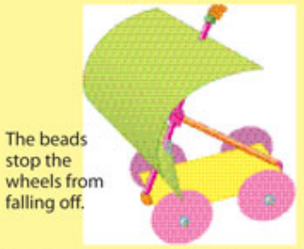
When you blow at the sail, it catches the wind energy in your breath and uses it to make the car move forward. Lots of things catch and use the wind's energy – sailing boats windsurfers and windmills and lots more.



7. For wheels, draw around the lid of a small jar four times on cardboard. Cut out the circles and make a hole in the middle of each one with a pin.



8. Push a wheel a little way onto the end of a toothpick. Then, slide the toothpick through one of the straws on the bottom of the car.




9. Push a wheel onto the other side. Then, attach the other wheels in the same way. Push a small bead onto the end of each toothpick.