



Table Top Experiments

BOTTLED ROCKET

tvokids

What you need:

- cardboard
- construction paper
- bicycle pump
- cork
- tape
- empty plastic bottle
- 9 pencils
- elastic bands
- scissors



Step 1:



Cut a large triangle out of construction paper and 3 small triangles out of cardboard.

Step 2:



Wrap the construction paper triangle around the bottom of the bottle like a cone and tape it into place.

Step 3:



Tape the small cardboard triangles to the sides of the bottle to make fins.

Don't forget to put the tape on both sides of the fins to secure them.



Step 4:



Cut the cork so it's shorter than the pin on the bicycle pump.

Poke the pin all the way through the middle of the cork.

Step 5:



To make the launch pad, use elastic bands to attach pencils into 2 triangles, one smaller than the other.

Step 6:



Use the remaining 3 pencils to attach the triangles together.

Adjust the height so that your rocket can stand on this launch pad.

Step 7:



Fill the bottle 1/3 of the way with water.

Stick the cork in the bottle to plug the opening (making sure the hose from the bicycle pump is fed through the launch pad).

Step 8:



Settle your bottle rocket into the launch pad.

Pump the bicycle pump to fill the bottle with air until the pressure builds up.

Your rocket will take off!



Step 9:



Try pushing the cork in even harder – or try more water – to see if that makes a difference.

Safety note: make sure that the rocket is not pointing towards anybody when it is launched and always make you do this outside in an open area.