

The Awesomely Amazing Science club

WHIZZ POP BANG!

Teacher-led activity

BALLOON ROCKET

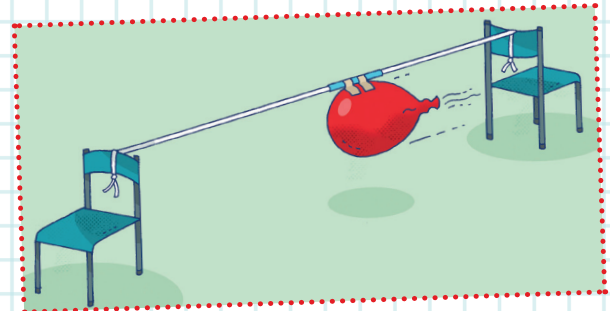
You will need:

- A balloon
- Sticky tape
- Scissors
- Two chairs
- Measuring tape
- A 5cm length of straw
- String



What you do:

1. Place the chairs six metres apart.
2. Cut 620 cm of string. Tie the string to the top of one chair.
3. Thread the straw through the string and tie the other end of the string to the top of the second chair. Cut two pieces of sticky tape.
4. Blow up the balloon and let it go three times (to stretch it so that it will hold more air and go further). Blow it up a fourth time, as big as you can, and tape it to the straw whilst holding the balloon neck closed.
5. Move the balloon close to one chair and let it go.



You should find:

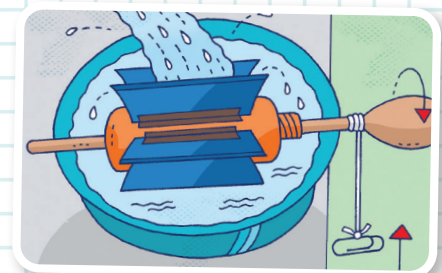
The gases (air) blasting backwards from the balloon push it forwards, just like a jet engine or a rocket.

Pupil activity

WATER WHEEL LIFTER

You will need:

- 1 small plastic bottle
- 1 large yoghurt pot or plastic bottle cut in half
- Duct tape
- String
- Paper clip
- Bowl
- Wooden spoon or pencil



What you do:

1. Make a hole in the bottom of the small plastic bottle.
2. Push the wooden spoon in through the top of the bottle and out through the hole in the bottom.
3. Cut the large yoghurt pot or plastic bottle into four or more pieces (catchers).
4. Stick these catchers onto the bottle at equally spaced intervals using duct tape on both sides.
5. Stick one end of the string to the wooden spoon and attach the paper clip to the other end.
6. Now balance the water wheel on top of the bowl and pour water over it.

You should find:

Your water wheel will turn slowly and wind up the piece of string, lifting the paper clip as it goes. Well done – you've just harnessed the power of running water!

Try this...

Now experiment with different shapes of catcher; for example, try using four small yoghurt pots or attaching more catchers. Send us your photos at hello@whizzpopbang.com