# Teacher-led activity

# BALLOON ROCKET

### You will need:

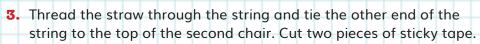
- A balloon
- Sticky tape
- Scissors
- Two chairs
- Measuring tape
- A 5cm length of straw
- String

#### You should find:

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

### 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.



- 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.

# 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

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