

THE HOLIDAY

MAKERS

Make a splash

ENGINEERING
TAKE A CLOSER LOOK

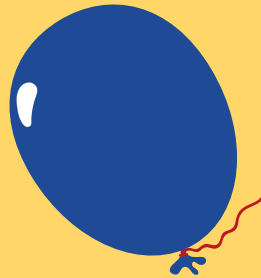
Create a colourful water fountain using just air pressure

In this easy engineering activity, use the air trapped in a balloon to power a spectacular water fountain.

Tip: Make sure you wear old clothes or an apron to protect your clothes from food colouring.

WHAT YOU'LL NEED

BALLOON



PAPER STRAW



BLU TACK



EMPTY WATER BOTTLE



SCISSORS



PLASTIC TRAY

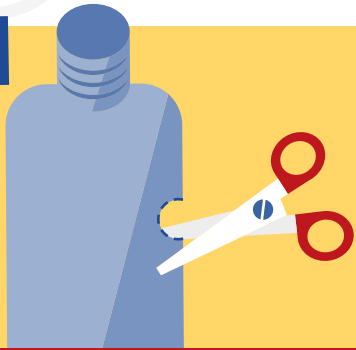


WATER & FOOD COLOURING



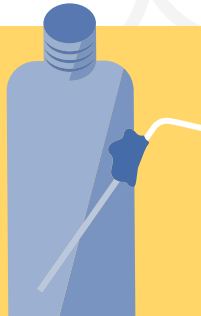
STEP-BY-STEP

1



Carefully cut a small hole roughly two thirds up the bottle.

2



Push the straw through the hole and place Blu Tack around the joint.

3



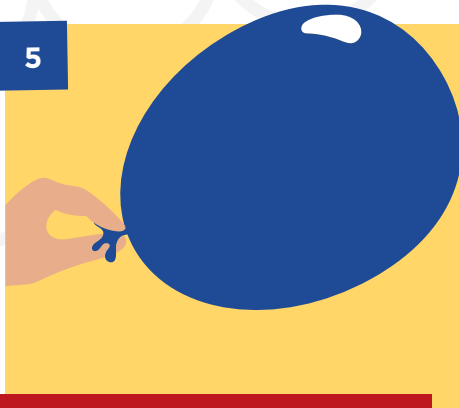
Place the bottle in the plastic tray.

4



Add food colouring to the water and fill the bottle to just below the level of the hole.

5



Blow up the balloon and hold the end so the air can't escape.

6



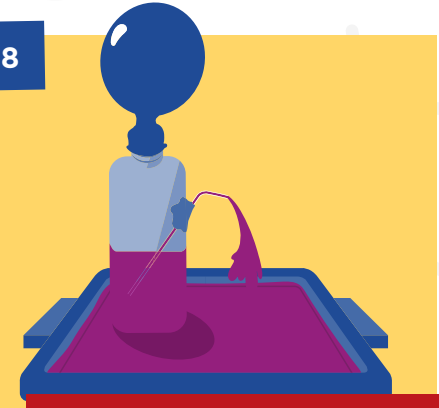
Place the end of the balloon around the mouth of the bottle.

7



Let go of the neck of the balloon and let the air into the bottle. Watch as the fountain begins to work.

8



Repeat steps 4-7 but this time with less air in the balloon and see what happens.

DID YOU KNOW?

Engineers use air pressure to power all sorts of things including the brakes on a bus and a dentist's drill.

We would love to see how you get on! Share your inventions with us using #theholidaymakers Twitter: @YoEgovuk Facebook and Instagram: @yearofengineering

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