



SCIENCE ON YOUR DOORSTEP

WALKING RAINBOWS

It's British Science Week (8-17 March)!

To celebrate, Norwich Science Festival will show you how to create your own walking rainbow at home.

Watch how the colours move and blend together over time.

Scan the QR code to watch an instruction video

norwichsciencefestival.co.uk/walking-rainbows



BE CAREFUL!

Food dye will stain hands and clothes

INSTRUCTIONS

1. Ask an adult to help you. Take six glasses. Squeeze red food dye into one glass. Squeeze blue dye into another, and yellow dye into a third glass. You should now have three glasses with food dye in them and three empty glasses.

YOU WILL NEED

- Six clean glasses/cups
- Scissors
- A spoon
- Water from a tap
- An adult to help you!

IN YOUR KIT

- 1 red food dye bottle
- 1 yellow food dye bottle
- 1 blue food dye bottle
- 6 paper towels

BEFORE YOU START

Cover the table with old newspaper, or a tablecloth that you can wipe down. The food dye can stain clothes and skin, so wear an apron or old clothes that you don't mind getting stained!



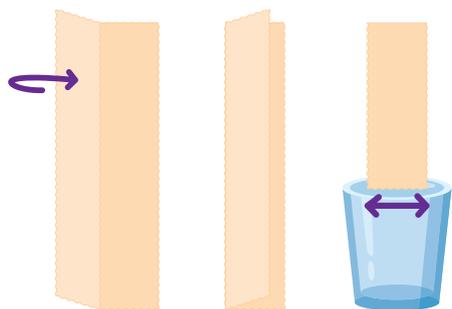
WE'D LOVE TO SEE YOUR RAINBOWS. TAG US IN YOUR PHOTOS!

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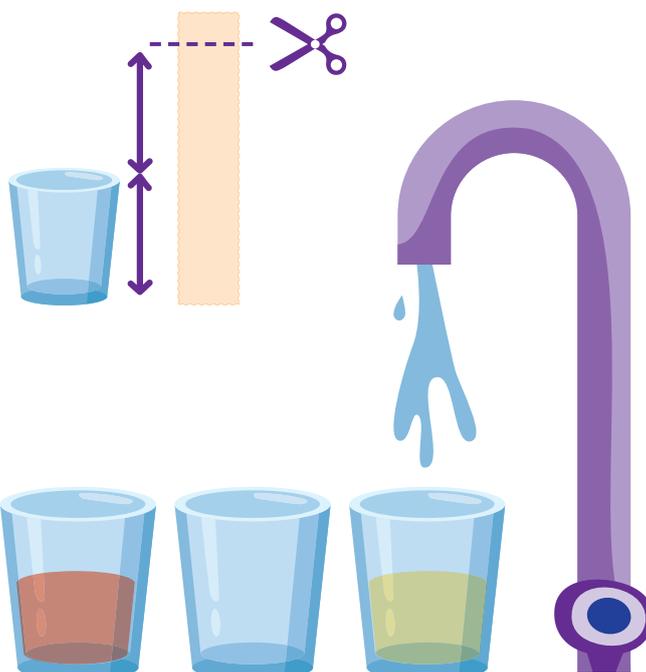
NorwichSciFest

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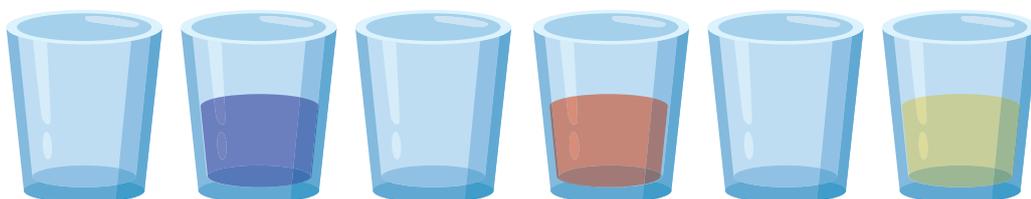
- 2.** Take the six paper towels from this pack. Fold each paper towel in half along the long edge, so that it fits inside a glass.



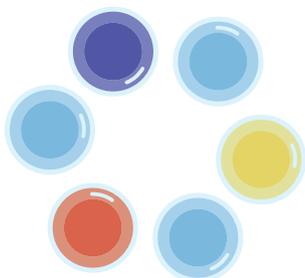
- 3.** Your paper towels will need to be twice as tall as your glasses. You might need to use the scissors to cut them if they are too long.



- 4.** Add water to the three glasses with the food dye in and stir with the spoon.



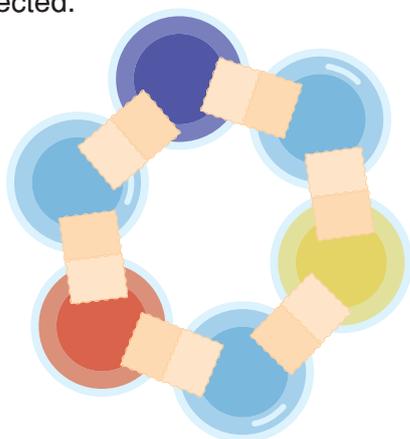
- 5.** Place the glasses into a circle, so the empty glasses are between the glasses with the food dye and water in them.



- 6.** Place the end of one paper towel inside one of the glasses. Fold the towel over, and dip the other end into the next glass.



- 7.** Repeat until there are two pieces of paper towel in every glass and all the glasses are connected.



NOW WATCH WHAT HAPPENS!

What do you notice after 5 minutes? What about after 20 minutes? Leave your glasses for an hour or even two. What has changed?

Scan the QR code to find out more



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When you're done with your walking rainbow, ask an adult to carefully pour all the liquid down the sink.

This activity is part of Science on your Doorstep, a project presented by Norwich Science Festival and The Forum. Supported by:



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