



amazelab



BARNSELY LIBRARIES

MINI CHROMATOGRAPHY BUTTERFLIES

#WildWorldHeroes
#ReadingSparks



YOU WILL NEED...



Pipe Cleaner



Water



Filter Paper/
Kitchen Roll



Felt Tip Pens



Small Container



Straw/Pipette



SCAN ME!

To find out more about the Wild World Heroes summer reading challenge, scan the QR code and watch on your phone, tablet or computer.



INSTRUCTIONS

- 1 Take your chromatography paper, coffee filter or kitchen roll and add lots of colourful patterns and shapes to it.
- 2 Put your water in a small container.
- 3 Using a straw or pipette take up some water and add it over your pattern.
- 4 Watch your shapes and colours transform before leaving to dry.
- 5 Once dry concertina the paper then pinch in the middle adding your pipe cleaner.
- 6 Twist your pipe cleaner to make antenna and spread out the wings to complete your butterfly!



THE SCIENCE!

The ink in your pens often aren't a single colour but made up of several colourful chemicals. When water soaks into the filter paper by capillary action it dissolves and carries some of the ink molecules with it. The bigger, heavier molecules in the inks don't move as far as the smaller, lighter ones so they move with the water at different speeds settling in different places as the water travels upwards. The darker inks like black and brown work best as they are tend to be made of many more colours.

INVESTIGATE!

How do scientists use butterflies to study biodiversity? What is a good habitat for a butterfly? Why are butterflies good for the environment? Perhaps present your findings in a report.

REMEMBER TO ASK FOR ADULT PERMISSION AND/OR SUPERVISION WHEN REQUIRED!

We'd love to see how you get on with the experiment! Please share on social media using #ReadingSparks and #WildWorldHeroes

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Summer Reading Challenge 2021

WILD WORLD HEROES

