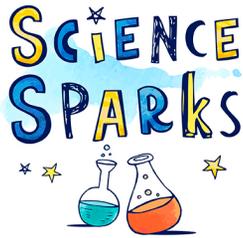
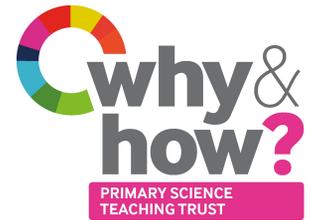


SCIENCE FUN AT HOME



Have some fun at home with these science activities from **Science Sparks** and the **Primary Science Teaching Trust**



BEFORE YOU START! Please read through this with an adult:

- * Make sure you have read the 'IMPORTANT NOTICE' on the back of this page.
- * If you have a space outside that you can use safely, then you can do the 'Try this outdoors' activity outside. Don't worry if not as you could still do it indoors.
- * Talk to your adult about sharing the science you have done and if they want to share on social media, please tag [@ScienceSparks](#) and [@pstt_whyhow](#) and use [#ScienceFromHome](#)

SCIENCE FUN FOR ROALD DAHL DAY

1 TRY THIS INDOORS The BFG

The BFG is very tall and has very big feet! What about you? How big are your feet compared with your height? Draw around your foot and cut out the footprint shape. Draw around the footprint and cut out 10 more of them. Lie on the floor and ask a friend to lay the footprints out next to you. How many of your own feet tall are you? If the BFG had feet twice as big as yours how tall would he be if he was the same number of feet tall as you?

WHAT DO YOU NOTICE?

Things to talk about ...

Adult human height varies considerably. So does foot length. But is there a link between height and foot length? Try doing the same activity for several friends and family and record the results in a table. What similarities and differences do you notice?

You will need

- * Coloured paper
- * Pen
- * Colouring pencils
- * Scissors
- * Ruler (optional)



2 TRY THIS OUTDOORS ... The Enormous Crocodile

The Enormous Crocodile is a very crafty creature. He finds clever ways to disguise himself and to blend in to his surroundings, hoping that the children won't notice he is nearby. You can find out more about why it is easy or hard to spot the hiding crocodile. Cut out some small paper crocodiles (or other shapes) using paper in natural green and brown colours, or you could colour them in yourself. Count your paper shapes and then ask someone else to go outside and spread them around in different places (e.g. on grass, gravel, tree branches, other plants) so you can go outside and search for them.

WHAT DO YOU NOTICE?

Things to talk about ...

Are some colours harder to find than others?
Where is it hardest to find the crocodiles?
How many crocodiles can you find hidden in this picture? Where can you hide one outside that your partner cannot find at all?!



3

WHAT IS THE SCIENCE?

There is a correlation between human foot length and height. Usually the height of an adult human is somewhere between 6 and 7.5 times bigger than the length of their foot. There is variation between males and females, and between adults and children, but generally speaking foot length can be used to predict height with reasonable accuracy.

Animals use camouflage to hide from predators or so that their prey won't see them. Animals that are the same colour as their surroundings are harder to spot. Imagine a green caterpillar on a green leaf and a brown caterpillar on a green leaf. The brown one would be much easier to spot and more likely to get eaten!

4

MORE ACTIVITIES YOU COULD TRY

SPOT THE HIDING ANIMAL - <https://kids.nationalgeographic.com/explore/wacky-weekend/hidden-animals/>

ROTTING FOOD FOR THE TWITS - <https://www.science-sparks.com/rotting-apples/>

BUILD A BIOME - <https://wowscience.co.uk/resource/build-a-biome/>

STACK BOOKS ON EGGS FOR MATILDA - <https://www.science-sparks.com/how-strong-is-an-eggshell/>

LEARN ABOUT BODY PROPORTIONS - <https://www.scientificamerican.com/article/human-body-ratios/>

IMPORTANT NOTICE: Science Sparks and The Primary Science Teaching Trust are not liable for the actions or activity of any person who uses the information in this resource or in any of the suggested further resources. Science Sparks and The Primary Science Teaching Trust assume no liability with regard to injuries or damage to property that may occur as a result of using the information and carrying out the practical activities contained in this resource or in any of the suggested further resources.

These activities are designed to be carried out by children working with a parent, guardian or other appropriate adult. The adult involved is fully responsible for ensuring that the activities are carried out safely.