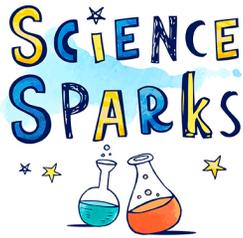
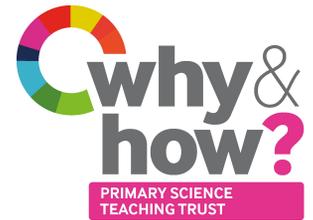


SCIENCE FUN AT HOME



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](#)

SCAVENGER SCIENCE

1 TRY THIS INDOORS ... Make a shelter

Collect some different materials together from indoors (e.g. foil, card, plastic, cotton) and/or outdoors (e.g. sticks, leaves). Use the materials to make a waterproof mini shelter for a toy. You could start by making a framework like the one in the picture and then put different materials over it. Once the shelter is finished, put a small toy inside and spray or drip water over the top. Try changing the material to find out which one is best at keeping the toy dry.

WHAT DO YOU NOTICE?

Things to talk about ...

Which materials are best at keeping the toy dry? Why do you think this is? Which materials let the water through? Do they let the water through straight away or after a bit of time? Which materials soak up the water?

NB if you are doing this indoors, put a tray or plastic sheet under the shelter to stop water going on the floor!

You will need

- * Collection of materials (e.g. foil, plastic, card, cotton, leaves)
- * Jug of water
- * Small toy
- * Egg box or other small container
- * Paper and glue



2

TRY THIS OUTDOORS ... Go on a scavenger hunt!

Take an empty egg box and stick a label or write inside the lid the things you might like to collect in the box. You could use the ideas in the pictures here or make up your own things.

WHAT DO YOU NOTICE?

Things to talk about ...

Which things are easiest to find? Which are the hardest? Why do you think that is? Which did you notice more of - natural things or things made by humans? Can you write four new things to set a challenge for someone else to find?



3

WHAT IS THE SCIENCE?

Water cannot pass through **waterproof** materials. Foil and plastic are waterproof which is why they are so useful for wrapping food, and why we make raincoats from plastic materials. Some materials might **absorb** water and so might not let it through straight away, e.g. thick cotton, but after some time, the water will drip through.

4

MORE ACTIVITIES YOU COULD TRY

SAVE THE DINOSAUR <https://www.science-sparks.com/save-the-dinosaur-waterproofing-investigation/>

MORE ABOUT PROPERTIES OF MATERIALS <https://wowscience.co.uk/resource/material-properties/>

TEN FUN NATURE ACTIVITIES FROM THE WOODLAND TRUST

<https://www.woodlandtrust.org.uk/blog/2020/03/kids-nature-activities-self-isolation/>

Join in with **THE GREAT SCIENCE SHARE** - [register](#) for this year's event and take a look at [the weekly themes](#) – **LAST WEEK WAS NATIONAL SCAVENGER HUNT DAY!**

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.