Science Week 2021 05/03/21 - 14/03/21

This week sees us celebrating British Science Week. Here are some ideas for simple science experiments, investigations and activities that you could try at home this week. You could use the stories below to provide a context for the learning. We would love to see what you get up to so please share pictures with your teachers or the school office!

Music Makers	Sink the Foil Boat	Brilliant	Bubbles!	Rainbow Magic
This activity encourages children to think about how different sounds are made. For this activity you will need several glass jars or bottles. Put different amounts of water in each container, tap on the containers gently to see what sound they make. Can you put the containers in order from the lowest note to the highest note? You could try blowing across the top of the bottles to see how the sound changes. You could add coloured water to make your magical instrument look even better. Can you think of any other things you could use to make music? You could investigate why and how the water and containers make sounds.	You will need: • Kitchen foil • Tub of water / bath / sink • Marbles (or anything to act as a small weight e.g. 1p coin) Instructions 1) Use some tin foil to see if you can make a boat shape. 2) Test your boat on the water whilst it is empty to check it floats 3) Make a prediction - how many marbles/pennies will sink your boat? 4) Test your boat by adding your weights one at a time. Count how many it takes to sink your boat. Will it need more or less weights if your boat is a different shape or size?	This activity encourages about liquids, gases and Put some bubble liquid in straw to blow some bubbl and then blowing harder-change? Find out how long you can before it pops. Find out how bubble in the air. Can you blow bubbles using things British Science Week 2021	bubbles. a bowl or tray. Use a les. Try blowing gently how do the bubbles keep a bubble for now long you can keep a find different ways to	You will need: • Kitchen paper towel • Felt tip pens • Two bowls of water • Paper clip Instructions 1) Cut the kitchen paper into the shape of a rainbow 2) Attach the paper clip to the top of the rainbow and attach some thread to this (you don't have to do this bit but it might make it easier to hold) 3) Colour a rainbow with felt tip pens from the bottom of both the ends of the rainbows up about 2-3cm Hold the rainbow over the water with the ends slightly in the water and watch the colours travel up the rainbow
Sniffly sneezers	Be seen, Be safe		Ice Rescue	

This activity focuses on the strength and absorbency of materials.

Try to find out which type of material would make the best hankie. Find some different materials around your home, put a piece of material in a tray, drip some coloured water onto the material. Does it soak up the water? Does the water come through? How can you make sure your test is fair? Can you think of a way to record your results?

This activity will get children thinking about reflection, light and the suitability of materials.

Find out which materials you could wear to help you be better seen in the dark. Make a dark space by drawing the curtains. Collect some different materials from around your home e.g. tissue, foil, white fabric etc. Shine a torch onto the different fabrics, what do you notice? Which materials can you see best? Do some colours work better than others? How can you make your test fair? Can you design something that could be worn in the dark to keep you safe?

You will need:

- A container
- Small plastic toys (e.g. lego men / animals)
- Water
- Freezer
- Salt

Instructions: Place your small plastic toys in the container and fill almost to the top with water. Leave in the freezer until it is frozen solid. Remove the container and set aside for 5-10min until it can be tipped onto a tray. What happens when you pour salt on your ice? What happens if you put some warm water on the ice? What do you think would be the fastest way to rescue your toys from the ice? How can you find out?







Using these stories from Crest could help provide a context for the science investigations. They also have some challenge questions you could use with your child to encourage them to think about their learning in more depth.



Brilliant Bubbles

Cosmic is very excited. Today is his birthday! His present is a big, bright purple bubble machine. When he turns the handle, dozens and dozens of bubbles float into the air.

His friend Gem arrives to wish him a happy birthday. Cosmic shows Gem his new bubble machine.

"What lovely bubbles!" Gem shouts, as she jumps about trying to catch them.

"You must be able to make different bubbles," says Gem, peering into the end of the machine. "Perhaps there's something wrong with it." "They are OK," says Cosmic. "But they are all the same shape... And they are all the same size... And they are all the same colour. I wanted lots of different bubbles, but these are all the same."

'I'm not sure," says Cosmic.

Your challenge

What do you think?

Can you find a way to blow different bubbles for Cosmic?

Cosmic thinks you can make bubbles with different shapes

Gem thinks you can make different size bubbles

Aunt Stella thinks you can make different colour bubbles





Using these stories from Crest could help provide a context for the science investigations. They also have some challenge questions you could use with your child to encourage them to think about their learning in more depth.



