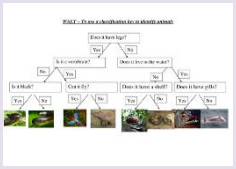
Wider Curriculum: Whole School Projects

Science in my house

	Monday	Tuesday	Wednesday	Thursday	Friday
	In the kitchen	**Out of the window**	**In the bathroom**	**In the lounge**	**In the bedroom**
Challenge 1	How many different **solids** and **liquids** can you find in your kitchen? Discuss this with an adult or draw a picture to show the different types. This clip may give you some ideas. https://www.bbc.co.uk/bitesize/clips/zfg3cdm 	Go out into your garden or look out of the window. What **insects** can you see? What **birds** can you see? Are there any **other animals** you can see? Draw and label the ones you can see. Can you sort these into groups? 	Floating and sinking! Find 3 items that you think will **float** and find 3 items that you think will **sink.** Test this out in your bath or in your sink! 	How many things can you find in your lounge that **make a sound**? How many of them can you **change the volume** of? Why is this important? 	How many **light sources** can you find in your bedroom? Which one is the **brightest** and which is the **dimmest**? 
Challenge level 2	Experiment: which solids **dissolve** in water? Find as many solids as you can for example sugar, coffee and salt. Add a teaspoon of each of the solids to a cup of cold water. Which ones **dissolve**? Then try it with hot water, does it change what happens? 	Create **a fact file** about an animal that you can see out of your window or in your garden. Things to include: diet, scientific name, type of living thing (e.g.: reptile or mammal), habitat and how they are suited to their surroundings.	Make your own **boat** of recycled materials. Test to **make sure it floats**. Begin to fill your boat with objects (keep the type of object the same such as lego pieces or marbles). How many pieces will it take to sink your boat? https://www.science-sparks.com/recycled-boats-sink-or-float/ This link may give you some ideas.	Create musical instruments and experiment with **pitch**. Which ones have a **higher pitch**? Which ones have a **lower pitch**? Does the material you use change this? If you had the resources you could create a string telephone. What happens if you change the length of the string or the material the cup is made out of? https://www.sciencekids.co.nz/projects/stringphone.html	Find a strong **light source** such as a torch or lamp. Find different objects to place in front of the light. You will create a shadow. What happens when you use objects made out of different materials? What happens when you move the objects **further away** or **closer** to the light? You could draw pictures of your experiment.
Challenge level 3	Set up an experiment to separate your mixtures from challenge 2. How might **filtration** help you? Write some instructions based on what you did. https://www.bbc.co.uk/bitesize/guides/zgvc4wx/revision/1 **Or** Bake a cake with your family. Explain what **changes of state** have happened and why. At which point during your baking were changes **reversible/irreversible**? Why is the final product irreversible?	**Compare** a variety of animals or insects that you can see out of your window or in your garden. You can choose how you present this. You could draw a classification key or use the Linnaean system. 	What **chemical reactions** take place in the bathroom? What happens when you put a bath bomb in the water? What happens when you clean your teeth/hair? Are any of these changes reversible? 	**Research** Find out **about soundwaves and frequency**. What does this mean? Draw a diagram to explain your understanding. https://www.bbc.co.uk/bitesize/topics/zgffr82 There are a selection of videos you could watch on this link.	Investigate which material will be best for curtains. Present your findings as you wish. **Or** Who was the inventor of the lightbulb? Create a fact file about this person. 

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