



Curiosity Fridays - Get Experimenting

"Imagination will take you everywhere." Albert Einstein



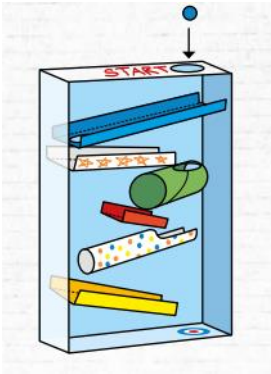
Lego Build a zoo, a school, a playground, a spaceship or a whole city. Make a favourite character, a marble run or a boat that floats. Anything! 	It's a Small World Use Playmobil, Sylvanian Families, toy animals or make your own figures from corks or paper. Make a whole world and go on adventures. 	A Bridge Too Far Make the strongest bridge that you can between two kitchen chairs. Experiment with different materials and shapes. What works the best? Can you make a strong bridge using only paper and string? How will you test your bridge? Can you improve your design or make it stronger?	Scrabble Make your own scrabble set. Cut out small squares from card and write letters. Remember to make lots of vowels and common letters such as s or t. How much would each letter be worth?	Oil Spill Mix oil and water in a large plastic container and drop in a feather. Can you remove the oil from the water and the feather? Try using a sponge, paper towel, straw, cotton wool or spoon)
Spaghetti Build Use spaghetti and any soft sweets (jellybabies or marshmallows.) Build a house or a skyscraper by joining the spaghetti with the sweets as 'glue'. 	Den Building You could use long sticks if you are in the forest or outdoor furniture and a sheet. Make is cosy, settle down and read a book.	Explosions! Diet Coke and a Mento or baking soda, vinegar, and glitter for a sparkly volcano.  Make sure you do it in a large tray or outside to catch all the fizz!	Movie Making Take a photo of an object. Move the object a tiny bit and take another photo. Repeat many times. Play back the sequence in rapid progression and you've made a movie! Try making your own character from playdough or creating a whole setting.	Rubber Band Racer Make your own car and power it up. How far can you make it go?  See below for instructions.



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Marble Run Raid your recycling and make a marble run. 	Floating and Sinking Gather items from all around the house. Fill the sink, bath tub or a large container. Experiment to find out what floats and what sinks. KS2 Challenge: Can you make your own boat? What would you use? Can you make it move?	Board game Invent your own board game. It could be as adventurous as Mouse Trap or as simple as snakes and ladders.	Make windsocks Attach a sock to a stick to see which way the wind is blowing. Compare these pillow cases, streamers, etc. for determining the most effective material and shape. Create long streamers and find out which is the longest that can fly horizontally in the wind. Invent other types of toy that will move in the wind such as windmills.	Shops Gather things together and make a shop. It could be a supermarket, a toy shop or a clothes shop. How much will things cost? Challenge: Make a sign for our shop. Will you have any promotions? Advertise your shop.
Cornflour chaos Mix cornflour with water in a large container. Have fun! Use different utensils to make patterns.	Kitchen Utensil Bubbles Collect slotted spoons, paper clips, cookie cutters and anything else that has holes to make bubbles. Bubble solution: 50ml washing up liquid water, 300ml water. Leave to rest before use. Which utensil creates the best bubbles? 	Measuring Fun Gather lots of containers and experiment to find out which holds the most water. Colour the water with food colouring for added interest. How much water does each one fill? How many cups does it take to fill the bucket?	Be David Attenborough Go for a walk or out in the garden and take pictures and videos of interesting things that you see. Try to zoom in up close as if you were a bee. Write a script to narrate your video.	Secret Message Pour some lemon juice into a container. Dip a stick or cotton bud into the juice and 'write' a secret message on paper. Read it by painting over with watercolours or holding up to the light.

Rubber Band Car



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You can use cardboard, plastic, wood, or anything else that works well and you can get at home.

Try looking in your recycling box.

SOME IDEAS ARE:

- **WHEELS:** bottle tops, cardboard circles, or even old cds
- **AXLES:** chopsticks, straws, pencils, cocktail sticks
- **CHASSIS:** plastic bottle, lollypop sticks, pencils, cardboard (a toilet roll tube will do, although this may need reinforcing)
- **RUBBER BAND:** you can also use loom bands connected together
- **TAB ON THE REAR AXLE:** the example below uses cardboard reinforced with tape, but a stronger one might be made using a small nail or screw
- Attaching the parts together can be achieved with a glue gun ideally, but if you don't have one, tape will do



A BASIC EXAMPLE

Axle

Made of a pencil, slipped through a tube made of newspaper which is taped to the chassis

Wheel

A cardboard disc with a hole made with a pencil

Tab

This needs to be strong enough to not bend when the rubber band is under tension

Rubber band

looped around the chassis at one end and a tab on the axle at the other, which holds it in place

Chassis

Made of cardboard, reinforced with two pencils



Once let go, the car should race forward



Rotate the axle, stretching and winding the band around it