



Chalfont St Giles Village School Science Activities to Try at Home

Nursery	R	1	2	3	4	5	6
Create ice cubes with small toys in them.	Freeze balloons filled with water and play with them.	Freeze and melt jelly. Dissolve an eggshell in a juice/fizzy drink.	Read a scientific book and recommend it.	Read a scientific book and recommend it.	Read a scientific book and recommend it.	Read a scientific book and recommend it.	Read a scientific book and recommend it.
Plant grass and make a mini garden.	Create a magnet maze using a magnet to move a metal object through it.	Create some milk art: Milk Art - Science Fun!	Watch the ISS at night: Spot The Station	Explore chromatography using a felt tip pen/Skittles: Skittles Chromatography and Osmosis Philip Harris.	Look at where Starlink and other satellites are in the sky: Find Starlink	Make parachutes at home: How to make a Parachute at home From plastic bag	Build a stick raft: Stick Raft Building STEM Project - Kids Craft Room
Look at floating and sinking in the bath	Draw around somebody's shadow	Shine light through a glass to refract light and create a rainbow: How to Make Rainbows at Home - One Time Through	Build a volcano that erupts using bicarbonate soda and vinegar.	Find and identify animal tracks.	Use an app to learn about constellations.	Investigate Friction areas on a bicycle.	Design a family tree.
Make your own bubble solution and bubble wands using washing up liquid.	Make shadow shapes with your hands	Grow some plants - possibly some edible ones!	Grow some plants - possibly some edible ones!	Go on a pebble hunt: The Pebble Spotter's Guide: how to collect pebbles - British	Grow some vegetables.	Investigate buoyancy - how much can you put in different boats before they sink?	Do some baking, measuring everything carefully.
Enjoy messy play with shaving foam, cornflour and jelly.	Grow your own cress head. Make a bug hotel in your garden.	Go on a bug hunt. Kaleidoscopes: DIY How to	Mentos in Diet Coke. What is the effect?		Make a lava lamp: Lava Lamp Experiment with Oil and Water Home Science	Make fizzing planets: Fun	Classify real life things e.g leaves, trees, plants and animals.

<p>Play with a torch in a den.</p>	<p>Will it dissolve? Use different liquids/powders and see what happens. Create a simple weather station to capture rainfall or show wind direction: CRAFT: Make a Wind Vane! Chirp Magazine</p> <p>Make some cornflour slime: Make Cornflour Slime - An Fun, Easy Science Experiment For Children To Try At Home</p> <p>Cook some foods and observe how they change.</p>	<p>Make a REAL Kaleidoscope (So Easy!)</p> <p>Make bird feeders and observe the birds: Make a Recycled Bird Feeder Fun Activities for Kids - The RSPB</p> <p>Set up a water walking experiment: Walking Water Experiment</p> <p>Explore floating and sinking using plasticine and making different shapes to see if they will float or not.</p> <p>Explore different materials and find out if they</p>	<p>Create a periscope</p> <p>Put some raisins in lemonade. Why do they dance up and down? Dancing Raisin Experiment</p> <p>Irreversible changes Burn some different materials and see what happens - a barbecue is an excellent opportunity as is a fire at home.</p> <p>Put dirty pennies in different liquids (cola, milk, orange juice etc.) and see what happens to them.</p>	<p>Geological Survey</p> <p>Go on a minibeast hunt: Minibeast Hunt - Tips for Finding Bugs - Woodland Trust</p> <p>Make some musical instruments: 5 instruments kids can make BBC Good Food</p> <p>Mummifying fruit: Ancient Egypt: Mummify an apple Part 1</p> <p>Create some fossils: Making a Fossil - CBeebies - BBC</p> <p>Explore different</p>	<p>Learn about how items biodegrade.</p> <p>Identify trees on a walk - The British Trees or Plantnet apps are good to identify these.</p> <p>Learn how a computer works: Introducing How Computers Work (video) Khan Academy</p> <p>Go on a bug hunt and classify them.</p> <p>Create a potato/lemon clock (this will require a kit).</p> <p>Create a home fitness regime - can you get faster...?</p>	<p>Science for a Space Theme Fizzing Planets</p> <p>Make constellation jars: DIY Constellation Jar Make Something Design Mom</p> <p>Research different space programmes (USSR, USA, SpaceX, China, Blue Origin...)</p> <p>Star gazing</p> <p>Create a Solar System out of junk modelling.</p> <p>Find out how spinning changes the shape of planets.</p> <p>Compare the size of</p>	<p>Make a periscope: Making A Periscope For Kids</p> <p>Find out what your inherited characteristics from your ancestors are.</p> <p>Monitor your heart rate before and after exercise.</p> <p>Use a microscope to look at things in more detail (Microscope required).</p>
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	<p>Look at capillary action: Show how water moves up through plants using food colouring in the water of some flowers, cabbage leaves or celery sticks: Cabbage Water Movement Experiment - ItsySparks</p>	<p>are magnetic or not. Make invisible ink and write messages: Write Secret Messages With Invisible Ink!</p>	<p>How does different amounts of water in a glass affect the pitch if you tap the side/rub your finger around the top: Glass music-Dance of the sugar plum fairy-Tchaikovsky</p> <p>Make an ant farm or wormery.</p> <p>Make musical instruments.</p> <p>Benefits of handwashing using water and pepper and a finger of soap/washing up liquid.</p> <p>Designing a</p>	<p>paper aeroplanes: Paper Airplane Designs</p> <p>Create a leaf suncatcher: Leaf Suncatcher Craft - The Best Ideas for Kids</p> <p>Shadow puppets</p> <p>Make a sundial: How to make a sundial</p> <p>Put a whole egg in vinegar.</p> <p>Sun photos - cyanotype</p> <p>Create a pin hole camera: Student Project: How to Make a Pinhole Camera NASA/JPL Edu</p>	<p>Investigate materials around the house - Are they conductors/insulators? Are they man-made or natural? Are they solids, liquids or gases?</p> <p>Identify electrical appliances around the home.</p> <p>Make a flower press and collect different flowers: DIY Flower Press - How To Press Flowers - 5 Minutes for Mom</p>	<p>different planets in the Solar System: Planetary Fact Sheet - Metric</p> <p>Investigate solar and lunar eclipses: What Is an Eclipse? NASA</p> <p>Investigate filtering, sieving and evaporation using common foodstuffs: Viewing Evaporation Experiment for Kids</p>	
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			<p>healthy food menu for the day.</p> <p>Try to make some fruit/vegetable cocktails.</p>	<p>Create a model of the Water Cycle: What Is the Water Cycle? NASA Climate Kids</p>			
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