



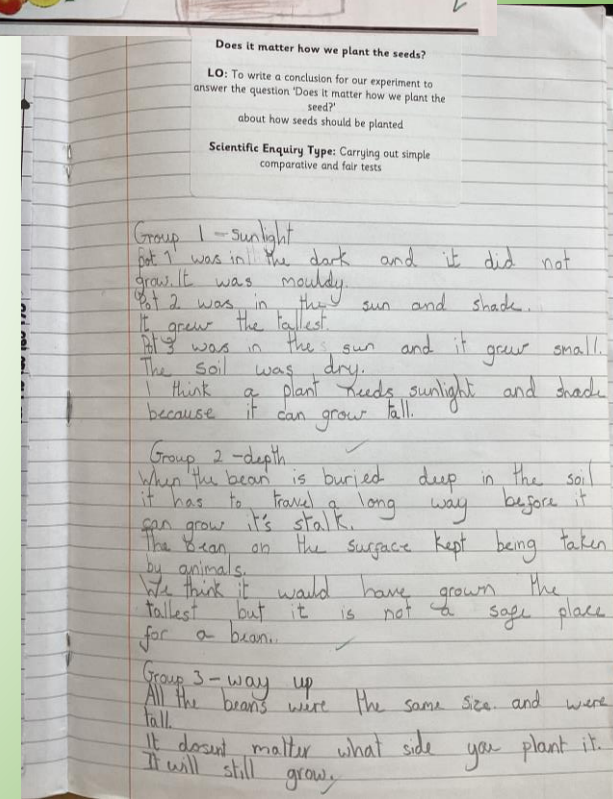
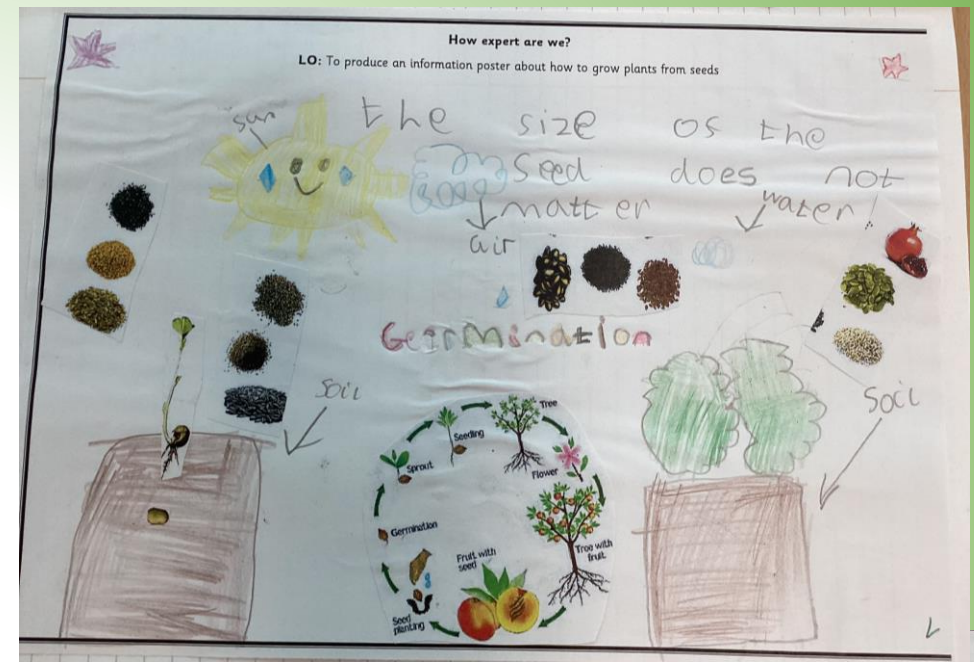
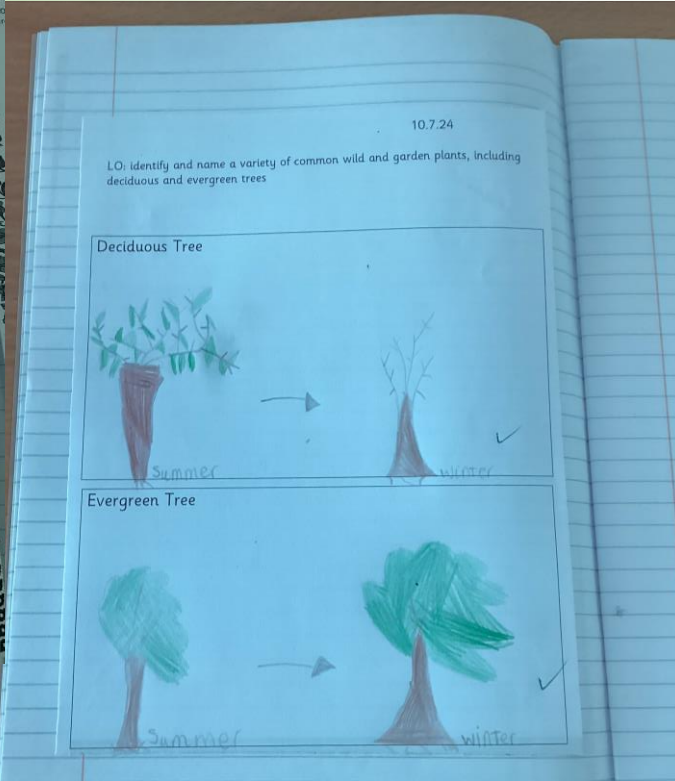
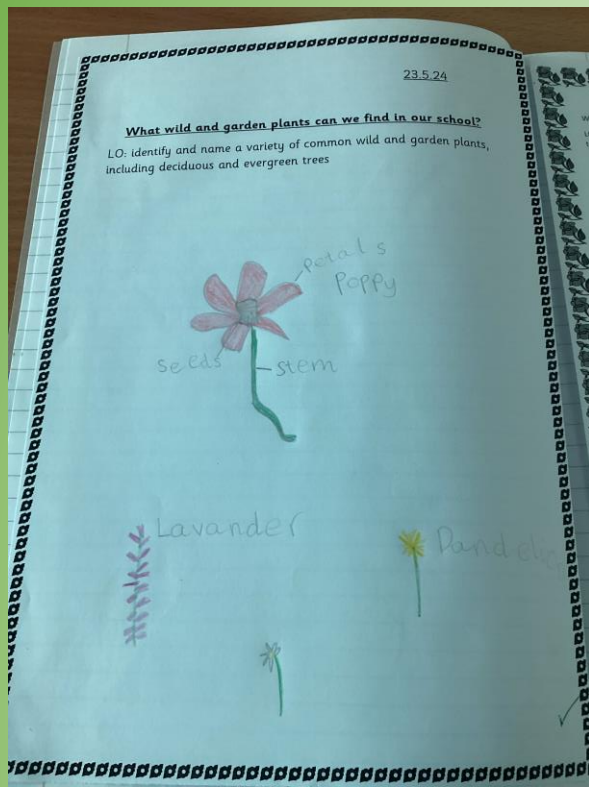
Science at St. Louis Catholic Primary School

Welcome to another science newsletter!

We have had an exciting last term of the school year, including a Year 6 trip to St. Michael's School to find out about science at secondary school . Here are some examples of the children's science and some science activities that will hopefully inspire you to do more science at home too!

Reception have been exploring lots of different things. They have also liked looking for minibeasts in our garden area, naming them and being very gentle with them when they were holding them. They have learnt how to make butter and how the cream changed to make this. They then enjoyed eating it with their 'school made bread!' They have planted sunflower seeds and are hoping they will grow into tall sunflowers.

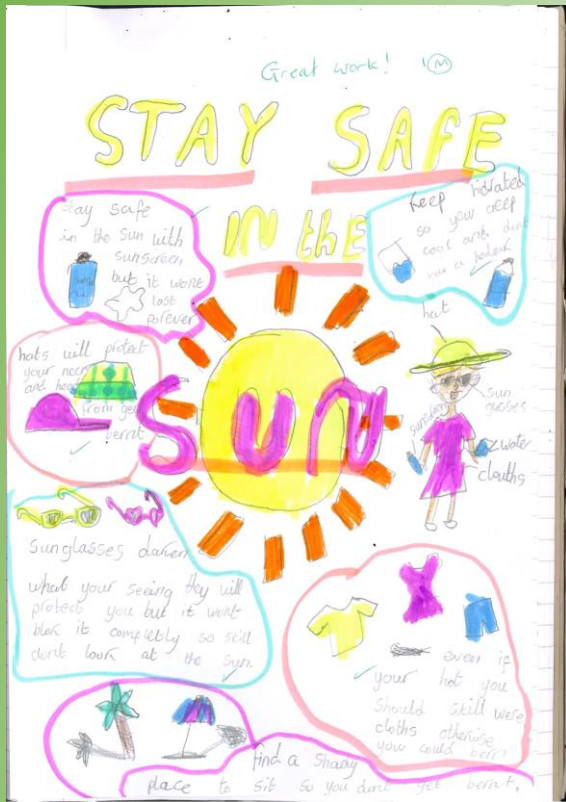




This term Year 1 have continued their work on 'everyday materials.' They have investigated the different materials to test their properties. They have also been 'plant detectives' and have been learning about lifecycles.

Year 2 have built upon what they learnt in Year 1 and have been 'apprentice gardeners.' They have investigated the best way to plant a seed and if the size of a seed affects the height the plant will grow.

L.O: To identify how shadows are formed



Year 4 have continued their work learning about solids, liquids and gases through their topic 'in a state'. They have also learnt about some of the positive and negative ways that humans change the environment, locally and globally, with a particular focus on how this affects other living things in the topic 'human impact'.

Year 3 have also built upon prior knowledge to look at 'how does your garden grow.' They have also been looking at light in the topic 'can you see me.' They have learnt about how we see objects and the ways in which different objects reflect different amounts of light, including exploring shadows.

14.06.24

Who are you?
 L.O: To identify pond/seashore animals using a key
 Enquiry type: Grouping and classifying

Does it have legs?

No
 Is it slimy?
 Yes: Dog, slug, snail
 No: sea anemone, shrimp

Yes
 Does it have a shell?
 No: shrimp
 Yes: Does it live in water?
 No: Does it have its shell open?
 Yes: Limpet
 No: Barnacle
 Yes: Mussel

07.05.254

How are vertebrates grouped?
 L.O: To classify vertebrates into groups using their key characteristics
 Enquiry type: Grouping and classifying

When you find an invertebrate, use the Invertebrate Classification Key to find out what it is. Tick it off and draw a quick sketch.

<input type="checkbox"/> millipede	<input type="checkbox"/> centipede	<input type="checkbox"/> earwig	<input type="checkbox"/> beetle
<input type="checkbox"/> caterpillar	<input type="checkbox"/> spider	<input type="checkbox"/> harvestman	<input type="checkbox"/> slug
<input type="checkbox"/> worm	<input type="checkbox"/> larvae	<input type="checkbox"/> woodlouse	<input type="checkbox"/> tick

Year 5 have been looking at the 'circle of life.' They have compared and contrasted different life cycles, identifying common features as well as explaining key differences. They have used their knowledge of life cycles to help them to create a fantastical creature of their own, complete with its own distinct life cycle. They also learnt about reproduction in plants and animals.

Year 6 have developed their understanding of electrical circuits and built on the work from Year 4 in their topic 'Danger! Low voltage.' They have also learnt about how to keep their bodies healthy and how their bodies might be damaged in the topic 'body health.'

L3 - To identify the contents of blood and describe their function

LO: What is blood and what is in blood?

Red blood cell	White blood cell
They deliver oxygen throughout the body. Every cell in the body carries oxygen. The red blood cells absorb oxygen and release it. Red blood cells contain a chemical called haemoglobin which gives blood its deep red colour.	Look for germs. Protect from different disease. White blood cells are part of the body's immune system. They destroy any viruses and bacteria in our bodies. The circulatory system allows white blood cells to travel wherever they are needed.
Plasma	Platelets

A liquid that carries these cells. It also transports important nutrients. Blood plasma is the liquid which contains all of the other components of blood. It is mostly composed of water and is pale yellow in colour.

help the blood to clot and repair. They are broken pieces of cells with an important function. They stop and prevent bleeding by causing blood to clots or form into a gel, at the site of a wound.

27.06.21

How do mammals and birds reproduce?

LO: To describe the life process of reproduction in mammals and birds

Enquiry Skill: using a wide range of secondary sources of information

06.06.21

What parts of a flower can we name?

LO: Are all flowers on all plants the same?

Enquiry Skill: using a wide range of secondary sources of information

Monday 13th May 2024

LS - How can we predict which circuit will have the brighter lamp?

LO: To compare and give reasons for variations in how components function.

Enquiry type: comparative (and fair) tests

Circuit 1 is brighter because it has more bulbs and more cells. Although bulbs have a closed switch it is there to trick you because it doesn't have any effect. Same brightness.

Circuit 1 is brighter because it has a medium wire which means more energy will pass through it than the thin wire because there is more space. Also ~~too~~ because Circuit 2 has one cell giving energy to more bulbs whereas circuit 1 has 1 cell giving energy to

only wire so that means it is not working as hard.

Circuit 2 is brighter because the Circuit 1 has an open switch which means that no energy will go through the wire.

Science Trips

Year 6 had the amazing opportunity to visit St. Michael's School to learn about secondary school science lessons. The children learnt about the importance of safety in science and were able to use various elements to see what colour the flame burnt on a Bunsen burner. The teachers also demonstrated other experiments with explosive results. All of the children were amazed at both of these!



Reception enjoyed a trip to Tring Zoological Museum where they saw lots of different animals, including polar bears, sharks, tigers and gorillas. They attended a workshop where they learnt about the best habitat for a glis glis and thought about which animals it would live with. Some Reception children even built a Tring Museum when they were back at school.

Lego club have had fun making bridges and building structures, working together collaboratively to make sure the tower does not fall. They also made their own marble runs, taking turns and sharing ideas of ways to allow the marble to run one end to the other.



Year 1 enjoyed a trip to Waddesdon Manor where they learnt about the life cycles of different minibeasts, plants and animals. They also enjoyed looking at the different birds and plants that can be found at Waddesdon Manor.

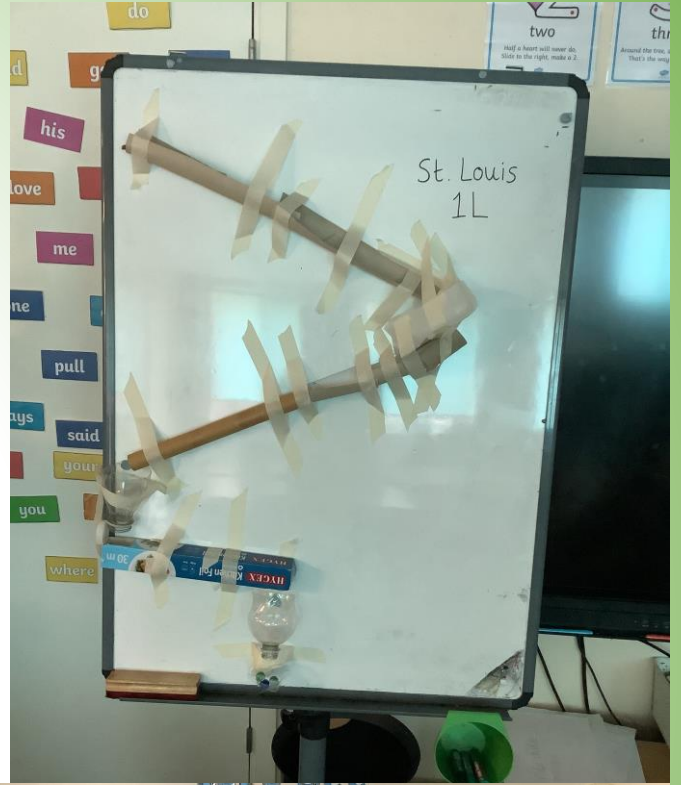
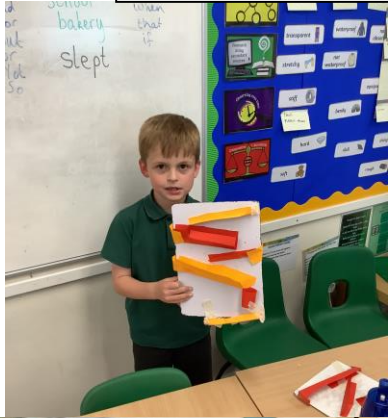
Upcoming Science related events

Plastic free July - <https://www.plasticfreejuly.org/>

Perseid Meteor Shower (August) - <https://www.nhm.ac.uk/discover/meteor-shower-lyrids-perseids-geminids-leonids-orionids.html#:~:text=Usually%20one%20of%20the%20best,of%20a%20grain%20of%20sand>

National Aviation Day (August 19th) Can you make your own paper aeroplane?

The whole school enjoyed making their own marble runs to enter the competition. They used lots of scientific discussion and testing to make the longest marble runs.



FIREWORK IN A GLASS



You'll need

Vegetable or sunflower oil
Warm water
Food colouring
Glass or jar



Instructions

Fill the glass or jar about 3/4 full of warm water

Carefully pour a small layer of oil onto the surface of the water and leave to settle. Note that oil and water don't mix!

Carefully drop small amounts of food colouring into the jar. You should see the food colouring drop through the oil into the water leaving colourful trails behind.

Extension Task

Try with colder or warmer water, is the display different?

Why does it work?

Food colouring is more dense than water so sinks to the bottom of the glass leaving trails (resembling fireworks) as some of the colour diffuses into the water.



The water based food colouring forms a bead shape in the oil as oil is hydrophobic (water hating). Oil molecules are more attracted to each other than water molecules so repel the food colouring. Surface tension between water molecules pulls them into the coloured spheres you see in the oil.

Why not try some of these science activities at home? We would love to see any photos from any science related activities you complete at home. You may even appear in the next newsletter! Please email these to the school office
FAO Science leader

SQUARE BUBBLES



You'll need

Pipe Cleaners
Bubble Mix
Jug



Instructions

Create a cube frame like the one in the image above.

Pour the bubble mix into the jug and dip the cube frame in so it's completely submerged.

Carefully lift out the frame and admire your square bubble!

Extra Challenge

Make your own different shaped bubble wands.



Why is the bubble square?

The soap film sticks to all six sides of the cube and the bubbles on the sides push against the middle bubble giving it corners and sides like a cube.

The square isn't perfect as the bubble is trying to become its natural sphere shape!

Why is a bubble a sphere?

The forces acting between the molecules of the bubble cause it to form the shape that encloses the most volume with the least surface area – a sphere!