

EYFS – Reception						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Name	Me and My family	Light Up the Sky	Starry Night	Perranporth My Home	Sunshine and Sunflowers	Who lives in a rockpool
Overview	<p>During this 'Me and My Family' topic, they look closely at their own features, they will learn about their bodies and the amazing things that they can do. They will learn about the similarities and differences between us. They will discuss what happens when we grow up (change over time)- what's changed since we were babies? What can we do now that we didn't use to be able to do?</p> <p>In their Phizzi investigations they will be introduced to scientific vocabulary specific to the investigations, as well as the vocabulary of working scientifically.</p>	<p>During this topic, the children will explore the natural world around them and begin to understand the effect of changing seasons. They will describe what they see, hear and feel whilst outside and learn the changes that are taking place as autumn arrives and gradually changes to winter. The children will collect autumn objects, (conkers, acorns, colourful leaves) learn the names of them and use vocabulary to describe them. They will talk about how animals prepare for winter and learn about animals that hibernate through reading the story 'It Was a Cold Dark Night'. They will also read the story 'The Little Red Hen' to learn about how food is grown and prepared. They will explore how we grind wheat to make flour and how flour can be used to make dough which can be baked to make bread (irreversible change).</p> <p>In their Phizzi investigations they will be introduced to scientific vocabulary specific to the investigations, as well as the vocabulary of working scientifically.</p>	<p>During this term, the children have a visit from Explorer Dome when they have a story-telling introduction to the moon, stars and the beauty of the nighttime sky. They find out how to see a picture of Orion as a dot-to-dot in the winter sky and hear some of the wonderful stories written into the stars.</p> <p>The children learn about, and are encouraged to ask questions about, the moon, the planets, and the stars. They have a visit from a Physics Teacher from Truro school where they can ask any questions that they may have. During this visit, they have the chance to make air rockets.</p> <p>They think about the fact that in winter the evenings get darker earlier compared to longer days during the summer. They learn about nocturnal animals through stories such as 'Owl Babies' and 'It Was a Cold Dark Night'.</p> <p>In their Phizzi investigations they will be introduced to scientific vocabulary specific to the investigations, as well as</p>	<p>During this topic the children learn about the concept of water displacement when they read the story 'Archimedes Bath' and do an experiment to observe the difference between what happens when marbles and cotton wool are put into water. They are encouraged to explain what they think is happening and why? They also explore the science of magnets when they try to move pirate ships without touching them.</p>	<p>During this term, the children become Zoologists as they classify different animals as part of their 'T is for tiger' Ogden Trust experiment. They recap learning about 'Our Senses' when they explore and taste different African fruit (they have previously learnt about their senses during Autumn 2, when they explored Autumn objects). They are young Botanists when they grow plants from a seed. The children will watch time lapse videos of beans growing, they will be encouraged to watch the changes closely and draw the bean at different stages. They develop their observational skills as they closely watch butterflies develop from larvae into fully-grown butterflies. They learn about lifecycles and learn the vocabulary associated with change and growth. In their Phizzi investigations they will be introduced to scientific vocabulary specific to the investigations, as well as the vocabulary of working scientifically.</p>	<p>During this topic the children will learn about marine wildlife, they will learn how to group and classify marine animals. They will first observe them in books and stories, through use of the internet and by looking at realistic toys and models. They will end the topic with a visit to the beach to participate in The Rockpool Project with a Marine Biologist. Ben (from The Rockpool Project) will use a mobile rockpool to show and teach the children about the marine wildlife, they will then take part in 'Rockpool Bingo' where they try to find the creatures that they have learnt about in the rockpools. Ben will share information with them such as <i>Why do crabs have shells? How can you tell the difference between a male and female crab?</i></p> <p>The children will recap what their senses are and use their senses to talk about their experiences at the beach. What can you smell? What can you hear? Etc</p> <p>They will also revisit the science of floating and sinking when they read the book 'Who Sank the Boat?' and do an investigation where they make animals using playdough and then try to work out which animal causes the boat to sink. Additionally, in their Phizzi investigations they will be introduced to scientific vocabulary specific to the investigations, as well as the</p>

			the vocabulary of working scientifically.			vocabulary of working scientifically .
Vocabulary	<p>Balloon Beards: Stick, rub, attract, same, different, static electricity</p> <p>Lollipop Skyscrapers: Lolly sticks, strong, light, strength</p> <p>question, observe</p>	<p>Bobbing Apples: Float, sink, predict, air, heavy, light</p> <p>Fizzing Candy Canes: Senses, mix, change, explore, Fizz</p> <p>Nature, change, hibernate</p>	<p>Mini Mallow Constellations: Constellation, star, distance, heat, change</p> <p>Milky Northern Lights: Northern Lights, milk, washing up liquid, mixing, observe, swirl</p> <p>Nocturnal, planets, moon, rocket</p>	<p>Archimedes takes a bath: Marble, cotton wool ball, absorb, predict, spill</p> <p>Magnetic Pirate ships: Magnet, push, pull attract, repel,</p>	<p>T for Tiger: Sorting, grouping, different, same</p> <p>Crazy Colours: Newton wheel, colour, light, white light, rainbow</p> <p>Growth, plants, seeds, observe, lifecycle, change</p>	<p>Dissolving discoveries: Dissolve, disappear, predict</p> <p>Terrific tunes: Sound, low, high, pitch, hearing, water, change</p> <p>Sea, beach, cliffs, rocks, protect, wildlife, marine life</p>
End Points	<p>Children can: explain what happens when we grow up by answering questions such as: What has changed since we were babies? What can we do now that we didn't use to be able to do?</p>	<p>Children can: discuss the seasons and the natural changes that occur. explain why some animals hibernate and how animals prepare for winter. explore natural objects using all our senses. compare woodland and non-woodland animals.</p>	<p>Children can: share differences between the sky in the daytime and nighttime. discuss how the moon changes shape and orbits the Earth. name some planets other than Earth. identify nocturnal animals and why they come out after dark.</p>	<p>Children can: explain why more water is displaced with 'heavier' objects.</p> <p>explain that magnets move objects with an invisible force.</p>	<p>Children can: explain simple lifecycles of plants and animals.</p> <p>explore the natural world, making observations and drawing pictures of animals and plants.</p> <p>understand some processes and changes in the natural world.</p>	<p>Children can: explain some key features of the seaside using words such as sea, beach, sand, cliffs, and rocks.</p> <p>group and classify wildlife and marine animals.</p> <p>say some ways we can protect wildlife and marine life.</p>

**Critical
knowledge,
skills and
understanding**

During their first term in St Piran Class at Perranporth CP School, pupils will be introduced to the fascinating world of science, with a focus on "Making sense of the world we live in." Through engaging topics, they will explore various scientific concepts and acquire essential vocabulary. To enhance their hands-on learning experience, the class will participate in 2-3 science investigations each half term, following the Ogden Trust Phizzi science talk programme.

As the school year progresses, pupils will delve deeper into core scientific principles, fostering a curiosity that encourages them to question and investigate their surroundings. The emphasis will be on developing observational skills, and pupils will be encouraged to articulate their findings and thoughts. This interactive and inquiry-based approach sets the foundation for a more profound understanding of science and instils a sense of wonder and curiosity that will continue to grow throughout their educational journey at Perranporth CP School.