

Science Long Term Plan



	Autumn Term		Spring Term		Summer Term	
Nursery	Why Am I Special?	Why Are Leaves So Crispy?	How Does That Building Stay Up?	Are Eggs Alive?	Why Do Spiders Eat Flies?	How Many Colours in a rainbow?
	<p>Biology – Seasonal change</p> <p>Through general discussions about the weather as it occurs. (Throughout whole year)</p>					
	<p>Physics – Materials Explore natural materials - sticks, stones, leaves (outdoor learning)</p> <p>Biology – Humans Explore their senses –</p>	<p>Biology – Humans Explore senses I can explore different objects –leaves, conkers, acorns etc. (touch/hearing) Explore light and dark/torches (sight) Popcorn/marshmallows, fire, (taste, smell)</p> <p>Biology – Plants /Habitats Begin to understand the need to respect and care for the natural environment. (Outdoor learning)</p> <p>Physics – Light and sound Explore their senses – light/dark Identify different sounds.</p> <p>Physics – Materials</p>	<p>Physics – Materials I can test and try different materials to make pig houses. I can see who can build the tallest tower and work out how to make it stronger.</p>	<p>Biology – Animals I can say some animals that come from eggs</p> <p>Biology – Plants /Habitats <i>Plant seeds and care for growing plants, (cress)</i></p>	<p>Biology – Plants /Habitats Begin to understand the need to respect and care for the natural environment. (Outdoor learning)</p> <p>Biology – Animals I can find mini beasts I can use magnifying glasses and making bug hotels. I can watch how caterpillars turn into butterflies</p>	<p>Chemistry – Materials Making jelly – what happens?</p>

		Explore the different forces they can feel. - Linked to weather – puddle jumping, ice melting, frost, making windmills, kites on windy days				
Reception	Marvellous Me	Let's Celebrate	Once Upon a Time	Things That Grow	Quests and Journeys	Oceans and Seas
	<p>Biology – Seasonal change</p> <p>How has the environment changed trees/ leaves, plants, weather, light/dark – simple changes to day length (dark when have breakfast/ tea in winter. In summer its still light at bedtime.</p> <p>(Every term)</p> <p>OBSERVATIONAL</p>					
	<p>Biology – Humans</p> <p>Our bodies – naming basic parts</p> <p>Same/different</p> <p>Keeping healthy – germs/ food</p> <p>SORTING AND CLASSIFYING</p>	<p>Biology – Animals</p> <p>Animals Nocturnal</p> <p>SORTING AND CLASSIFYING</p> <p>Physics –</p> <p>Light and sound</p> <p>Exploring torches/dark areas/shadows/different colours/shadow puppets</p> <p>Which clothes are good to be seen in the dark?</p>	<p>Physics – Materials</p> <p>What materials are good to make bridges with?</p> <p>TESTING</p>	<p>Biology – Plants /Habitats</p> <p>How do plants grow – beans, peas, sunflowers</p> <p>MEASUREMENT</p> <p>OBSERVE OVER TIME.</p> <p>Label parts of a plant. (UW- purple mash – drag and drop.</p> <p>Cut and stick</p> <p>Biology – Animals</p> <p>Farm animals – naming offspring, lamb, calf, foal, chick, piglet, kid, kitten, puppy. – link Rushall farm. (Spring 2)</p> <p>SORTING AND CLASSIFYING/ OBSERVATION</p>	<p>Biology – Plants /Habitats</p> <p>Biology – Animals</p> <p>Habitats and mini beasts</p> <p>Noticing patterns in nature.</p> <p>SORTING AND COMPARING/ OBSERVATIONS.</p>	<p>Physics – Materials</p> <p>Floating and sinking.</p> <p>TESTING</p>

Year 1	Toys	Fairy Tales and Forests	To Infinity and Beyond	Animals Around the World	Dinosaurs	London
	<p>Biology – Seasonal change</p> <p>Throughout seasons linked to class trees – through outdoor learning.</p>					
	<p>Biology – Humans</p> <p>Body parts – extended to some internal organs Linking body parts to senses. INVESTIGATE -touch/memory</p>	<p>Physics – Materials</p> <p>Identify materials – talk about properties. RECORD TALLY CHART INVESTIGATE – magnets/metals Waterproof.</p>	<p>Biology – Plants /Habitats</p> <p>OBSERVATION OVER TIME – weather/temperature RECORD temp SORT/CLASSIFY trees deciduous/evergreen Name flowers DRAW AND LABEL parts of trees</p>	<p>Biology – Animals</p> <p>SORT AND CLASSIFY Animals by type e.g mammals. etc Label body parts COMPARE animals' different places. Name adult animals and offspring. (Ewe, ram, lamb) INVESTIGATE – camouflage</p>	<p>Biology – Animals</p> <p>SORT/ VENN DIAGRAM Dinosaurs – carnivore, herbivore...etc Name parts of dinosaur – COMPARE (teeth) INVESTIGATE – who's poo?</p>	<p>Biology – Plants /Habitats</p> <p>OBSERVE OVER TIME Rainfall and temp. RECORD rainfall. Talk about how tree has changed throughout the year. COMPARE – weather from a different country</p>
Year 2	Towers, Tunnels and Turrets	Winter Wonderland	Muck, Mess and Mixtures	The Scented Garden	Wriggle and Crawl	The Age of Discovery
	<p>Biology – Seasonal change</p> <p>Autumn 1/ Spring 1/ Summer 1</p> <p>Visit class area – record changes throughout the year, linked to plants, trees and animals. (outdoor learning)</p>					
	<p>Physics – Materials</p> <p>Choosing materials linked to suitability for a purpose. INVESTIGATE.</p> <p>Chemistry – Materials</p> <p>How to change materials by force/ twisting... etc</p>	<p>Physics – Light and sound</p> <p>Chemistry – Materials</p> <p>ASK Q'S INVESTIGATE, PREDICT, TEST, RECORD. SHARE</p>	<p>Physics – Materials</p> <p>Chemistry – Materials</p> <p>INVESTIGATE – what's stickier?</p>	<p>Biology – Plants /Habitats</p> <p>RECORD AND OBSERVE - Planting bulbs. Identify and naming flowers. – extending vocab. INVESTIGATION – seeds</p>	<p>Biology – Animals</p> <p>SORTING AND CLASSIFYING– Alive, dead, never been alive Food chains. How are animals suited to their habitats – microhabitats.</p>	<p>Biology – Humans</p> <p>RECORD and MEASURE Their height. What do humans need to survive? How to stay healthy – linked to exercise. INVESTIGATE</p>