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?		
	Biology – Seasonal change Through general discussions about the weather as it occurs. (Throughout whole year)							
	Physics – MaterialsExplore natural materials - sticks, stones, leaves (outdoor learning)Biology – Humans Explore their senses –	Biology – Humans Explore senses I can explore different objects –leaves, conkers, acorns etc. (touch/hearing) Explore light and dark/torches (sight) Popcorn/marshmallows, fire,	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.	Biology – Animals I can say some animals that come from eggs Biology – Plants /Habitats Plant seeds and care for growing plants, (cress)	Biology – Plants /Habitats Begin to understand the need to respect and care for the natural environment. (Outdoor learning)	Chemistry – Materials Making jelly – what happens?		
		(taste, smell) Biology – Plants /Habitats Begin to understand the need to respect and care for the natural environment. (Outdoor learning)			Biology – Animals I can find mini beasts I can use magnifying glasses and making bug hotels. I can watch how caterpillars turn into butterflies			
		Physics – Light and sound Explore their senses – light/dark Identify different sounds. Physics – Materials						

		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 Biology – Seasonal change 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. (Every term) OBSERVATIONAL							
	Biology – Humans Our bodies – naming basic parts Same/different Keeping healthy – germs/ food SORTING AND CLASSIFYING	Biology – Animals Animals Nocturnal SORTING AND CLASSIFYING Physics – Light and sound Exploring torches/dark areas/shadows/different colours/shadow puppets Which clothes are good to be seen in the dark?	Physics – Materials What materials are good to make bridges with? TESTING	Biology – Plants /Habitats How do plants grow – beans, peas, sunflowers MEASUREMENT OBSERVE OVER TIME. Label parts of a plant. (UW- purple mash – drag and drop. Cut and stick Biology – Animals Farm animals – naming offspring, lamb, calf, foal, chick, piglet, kid, kitten, puppy. – link Rushall farm. (Spring 2) SORTING AND CLASSIFYING/ OBSERVATION	Biology – Plants /Habitats Biology – Animals Habitats and mini beasts Noticing patterns in nature. SORTING AND COMPARING/ OBSERVATIONS.	Physics – Materials Floating and sinking. TESTING		

Тоуѕ	Fairy Tales and Forests	To Infinity and Beyond	Animals Around the World	Dinosaurs	London		
Biology – Seasonal change							
Throughout seasons linked to class trees – through outdoor learning.							
Biology – Humans Body parts – extended to some internal organs Linking body parts to senses. INVESIGATE -touch/memory	Physics – Materials Identify materials – talk about properties. RECORD TALLY CHART INVESTIGATE – magnets/metals Waterproof.	Biology – Plants /Habitats OBSERVATION OVER TIME – weather/temperature RECORD temp SORT/CLASSIFY trees deciduous/evergreen Name flowers DRAW AND LABEL parts of trees	Biology – Animals 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	Biology – Animals SORT/ VENN DIAGRAM Dinosaurs – carnivore, herbivoreetc Name parts of dinosaur – COMPARE (teeth) INVESTIGATE – who's poo?	Biology – Plants /Habitats OBSERVE OVER TIME Rainfall and temp. RECORD rainfall. Talk about how tree has changed throughout the year. COMPARE – weather from a different country		
Towers, Tunnels and Turrets	Winter Wonderland	Muck, Mess and Mixtures	The Scented Garden	Wriggle and Crawl	The Age of Discovery		
Biology – Seasonal change							
Autumn 1/ Spring 1/ Summer 1							
Visit class area – record changes throughout the year, linked to plants, trees and animals. (outdoor learning)							
Physics – MaterialsChoosing materials linked tosuitability for a purpose.INVESTIGATE.Chemistry – MaterialsHow to change materials byforce/ twisting etc	Biology – Humans RECORD and MEASURE Their height. What do humans need to survive? How to stay healthy – linked to exercise. INVESTIGATE	Physics – Materials Chemistry – Materials INVESTIGATE – what's stickier?	Biology – Plants /Habitats RECORD AND OBSERVE - Planting bulbs. Identify and naming flowers. – extending vocab. INVESTIGATION – seeds	Biology – Animals SORTING AND CLASSIFYING– Alive, dead, never been alive Food chains. How are animals suited to their habitats – microhabitats.	Recall and revise topics from the year.		
	Biology – Seasonal change Throughout seasons linked to cl Biology – Humans Body parts – extended to some internal organs Linking body parts to senses. INVESIGATE -touch/memory Towers, Tunnels and Turrets Biology – Seasonal change Autumn 1/ Spring 1/ Summer 1 Visit class area – record changes Physics – Materials Choosing materials linked to suitability for a purpose. INVESTIGATE. Chemistry – Materials How to change materials by	Biology – Seasonal change Throughout seasons linked to class trees – through outdoor learn Biology – Humans Body parts – extended to some internal organs Linking body parts to senses. INVESIGATE -touch/memory Provers, Tunnels and Turrets Biology – Seasonal change Autumn 1/ Spring 1/ Summer 1 Visit class area – record changes throughout the year, linked to pi Physics – Materials Biology – Seasonal change Autumn 1/ Spring 1/ Summer 1 Visit class area – record changes throughout the year, linked to pi Physics – Materials Choosing materials linked to suitability for a purpose. INVESTIGATE. Biology – Humans RECORD and MEASURE Their height. What do humans need to survive? How to change materials by	Biology – Seasonal change Throughout seasons linked to class trees – through outdoor learning. Biology – Humans Physics – Materials Biology – Plants /Habitats Body parts – extended to some internal organs Identify materials – talk about properties. Biology – Plants /Habitats DBSERVATION OVER TIME – weather/temperature INVESTIGATE – touch/memory Physics – Materials Biology – Plants /Habitats DBSERVATION OVER TIME – weather/temperature Towers, Tunnels and Turrets Winter Wonderland Muck, Mess and Mixtures Biology – Seasonal change Winter Wonderland Muck, Mess and Mixtures Biology – Seasonal change Biology – Humans Physics – Materials Choosing materials linked to suitability for a purpose. INVESTIGATE. Biology – Humans RECORD and MEASURE Their height. Physics – Materials Chemistry – Materials How to change materials by Biology – Humans RECORD and MEASURE Their height. Physics – Materials Chemistry – Materials How to stay healthy – linked to exercise. INVESTIGATE – what's stickier?	Intervention World Biology – Seasonal change Throughout seasons linked to class trees – through outdoor learning. Biology – Humans Physics – Materials Body parts – extended to some internal organs Identify materials – talk about properties. Biology – Plants /Habitats Dikting body parts or senses. Identify materials – talk about properties. Biology – Plants /Habitats Biology – Animals Dikting body parts or senses. INVESTIGATE – magnets/metals Biology – Seasonal change Biology – Mumans. etc Label body parts Label body parts OMPARE animals' different places. DRAW AND LABEL parts of trees Name flowers Name adult animals and offspring. (Ewe, ram, lamb) Towers, Tunnels and Turrets Winter Wonderland Muck, Mess and Mixtures The Scented Garden Biology – Seasonal change Autumn 1/ Spring 1/ Summer 1 Songer – Humans Biology – Plants /Habitats Physics – Materials Unitability for a purpose. Biology – Humans Biology – Plants /Habitats RECORD TALLY CHART INVESTIGATE – Biology – Plants /Habitats Biology – Plants /Habitats Biology – Seasonal change Muck, Mess and Mixtures The Scented Garden Physics – Materials Biology – Plants /Habitats RECORD And DESERVE Choosing materials linked to suitability for a purpose. Biology – Plants /Habitats RECORD AnD OBSERVE	Image: Seasonal change World Biology – Seasonal change Physics – Materials Biology – Plants /Habitats Biology – Animals Body parts – extended to some internal organs Physics – Materials Identify materials – talk about properties. Biology – Plants /Habitats Biology – Animals Body parts – extended to some internal organs Physics – Materials Biology – Animals SORT AND CLASSIFY INVESIGATE - touch/memory IVESTIGATE – magnets/metals Biology – Materials Biology – Animals New servers DRAW AND LABEL parts of trees COMPARE animals 'different places. Name adult animals and offspring. (Ewe, ram, lamb) NVESTIGATE – camouflage NVESTIGATE – who's poo? Biology – Seasonal change Winter Wonderland Muck, Mess and Mixtures The Scented Garden Wriggle and Crawl Physics – Materials Choosing materials linked to suitability for a purpose. INVESTIGATE – Biology – Humann RECORD and MEASURE Their height. Physics – Materials NVESTIGATE – what's stickier? Biology – Plants /Habitats RECORD AND OBSERVE – Planting blubs. Sort NP - Animals Sort NP - Animals Sort NP - Animals		