

	Nursery									
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2				
Topic	All about Me and Autumn	Traditional Tales	Vehicles, materials and people who help us	Growing and Changing	Under the Sea, holidays and pirates	Animals and Habitats				
Working scientifically	Talk through a problenTalk to an adult about	Begin to engage in open-ended activity and exploring with adult support Talk through a problem with an adult and how they can overcome this Talk to an adult about the resources that they would like to use. Follow adults' lead with 'I wonder' questions								
Physics	• Explore and talk about different forces they can feel - pushes and pulls, exploring vehicles, prams, elastic bands, boats in water, toy on a string		MATERIALS Talk about the differences between materials and explore similar or different properties: wood, plastic, fabric and metal (not naming or sorting at this stage) Use all their senses in hands-on exploration of natural materials: bark and wood, indoors and outside (body parts associated with senses will be learnt in year 1) FORCES Explore how things work using mechanical toys - wind-up toys, pull back vehicles, turning	PLANTS/ ANIMALS INCLUDING HUMANS • Use our senses in hands on exploration of natural materials: seeds, leaves and plants (body parts associated with senses will be learnt in year 1)	• Use our senses in hands on exploration of natural materials: different shells and pebbles from the beach (body parts associated with senses will be learnt in year 1) FORCES • Explore and talk about different forces they can feel - floating and sinking	Exploring and creating shadows				



Chemistry	ANIMALS INCLUDING HUMANS Name and identify common body parts	PLANTS • Plant bulbs • Care for growing plants • Begin to understand the need to respect and care for the natural environment and living things	STATES OF MATTER • Talk about the differences between materials – ice and the changes they notice – melting • Cook and explore combining, heating and cooling ingredients	Plant seeds and bulbs, watch them grow and continue to care for them Understand the key features of the life cycle of a plant		LIVING THINGS IN THEIR HABITATS Observe and understand the key features of animal lifecycles - caterpillars hatching and becoming butterflies (chicks every other year) ANIMALS INCLUDING HUMANS Discuss animals (pets) of their choice, focusing on what they look like
Vocab	push, pull head, arms, hands, fingers, legs, feet and toes	bulbs, plant, soil water, grow	 hard, soft, rough, smooth rough, smooth, hard, soft, smell, feel, see pull, wind, turn change, icy, cold, wet, hard, warmer, melt/ melting, water change, heat, cool, cook, warmer, cooler 	 big, small, rough, smooth, hard, soft, smell, feel, see bulbs, plant, grow, water, soil seed, grow, flower 	big, small, rough, smooth, hard, soft, smell, feel, see water, float, sink	light, shadow life cycle, change, changing, egg, chrysalis/ cocoon, butterfly (chicks- egg, hatch, chick, hen) ears, tail, face, legs, paws



Reception									
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Topic	My World	Celebrations	The world around me	Growing and Changing	Under the Sea	Animals and Habitats			
Working	Engage in open-ended activity playing and exploring								
scientifically	Take a risk, engage in new experiences and learn by trial and error								
	• Find ways to solve problems/ find new ways to do things/test their ideas								
	Handle equipment and tools effectively Choose the resources they need for their chosen activity								
	• Create simple representations of events, people and objects								
	Answer how and why questions about their experiences								



Physics	SEASONAL CHANGES	LIGHT	MATERIALS/ FORCES	SEASONAL CHANGES	MATERIALS/ FORCES	SEASONAL CHANGES
	Understand and talk	Explore and compare	Name materials based	 Understand and talk 	Talk about the changes	Understand and talk
	about some important	day and night	on their differences	about some important	they notice for wood/	about some important
	processes and	Notice light and dark	including wood, plastic,	processes and	paper and plastic for	processes and
	changes in the natural	places in the	fabric and metal	changes in the natural	example when a	changes in the natural
	world around them,	immediate	Observe and explore	world around them,	material is put in to	world around them,
	looking at the seasons	environment	which of these	looking at the seasons	water - boats	looking at the seasons
	as a cycle, knowing	Observe and	materials are attracted	as a cycle, knowing		as a cycle, knowing
	that the weather	experience shadows -	to a magnet	that the weather	LIGHT	that the weather
	changes in the four	puppets and		changes in the four	 Explore light travelling 	changes in the four
	seasons and	themselves	SEASONAL CHANGES	seasons and	through transparent	seasons and describing
	describing what we		Understand and talk	describing what we	materials	what we see, hear and
	see, hear and feel in	SOUND	about some important	see, hear and feel in		feel in Summer,
	Autumn compared to	Explore making sounds	processes and changes	Spring, compared to		compared to Spring
	Summer	in a variety of different	in the natural world	Winter		Observe how animals
	Observe how animals	ways - musical	around them,	 Observe how animals 		behave differently as
	behave differently as	instruments and vocal	looking at the seasons	behave differently as		the seasons change –
	the seasons change –		as a cycle, knowing	the seasons change –		minibeasts hatching
	squirrels storing nuts		that the weather	baby animals		
	and hedgehogs		changes in the four			
	hibernating		seasons and describing			
			what we see, hear and			
			feel in Winter,			
			compared to Autumn			
			Observe how animals			
			behave differently as			
			the seasons change –			
			feeding birds in winter			
			and migration			



Biology	ANIMALS INCLUDING	LIVING THINGS IN THEIR	PLANTS	LIVING THINGS IN THEIR
	HUMANS	HABITATS	Observe plants and	HABITATS
	Name and identify	 Know some similarities 	trees in their	Describe animals (pets
	common body parts	and differences	immediate	and farm animals) that
	Explore how their own	(linked to habitats)	environment and	they have seen in stories, videos or in
	bodies can move	between the natural	begin to talk about	person, focusing on
		world around them	what they need to	where they live,
	LIVING THINGS IN THEIR	and contrasting	grow	including a pig, horse,
	HABITATS	environments - Arctic		sheep, duck, rabbit,
	Explore the natural	and Africa	LIVING THINGS IN THEIR	fish and hamster
	world around them		HABITATS	Know some similarities
	making observations		Explore the natural	and differences (linked to habitats) between
	and drawing pictures		world around them	the natural world
	of animals and plants -		making observations	around them and
	squirrels, hedgehogs,		and drawing pictures	contrasting
	trees		of animals and plants-	environments –
			trees, blossom,	countryside and town
			daffodils, snowdrops,	Explore the natural world around them
			frogs, lambs and birds	making observations
				and drawing pictures
				of animals and plants -
				trees, flowers,
				minibeasts and farm
				animals
Chemistry		STATES OF MATTER	STATES OF MATTER	
		Explore and observe	Explore and observe	
		ice melting and	other substances	
		solidifying	(chocolate) melting	
			and solidifying	



Vocab	see, hear, feel, Summer, Autumn, weather, sun, rain, wind, colder, warmer, leaves Autumn, hibernation, collecting, storing, food elbows, knees, shoulders, ankles, neck jump, turn, bend, stretch squirrels, hedgehogs, trees	day, night, light dark, sun, moon, awake, sleep light, window, shade shadow, light tap, shake, scrape, loud/ quiet, fast/ slow	 hard, soft, rough, smooth magnet, magnetic see, hear, feel, Autumn, Winter, weather, frost, snow, ice, cold, bare branches Winter, cold, ice, frozen, food, migration, warmer country hot, cold, snow, ice, rain, wind, habitat change, liquid, solid, cold, warm, melt, solidify 	see, hear, feel, Spring, Winter, weather, frost, snow, ice, rain, wind, cold, buds, tweeting Spring, hibernation and migration, warmer weather, baby animals water, rain, light, sun trees, blossom, daffodils, snowdrops, frogs, lambs and birds change, liquid, solid, cold, warm, melt, solidify	transparent, light, glass, plastic wet, dry, sink, float, push	see, hear, feel, Spring, Summer, weather, warmer, sun, green leaves, flowers, buzzing Summer, hatching, warm, sunny, food pig – sty, horse – stable, cow – shed, sheep – field, duck – pond, rabbit – hutch, fish – bowl, hamster – cage houses, roads, fields, farms, rivers trees, flowers, minibeasts and farm animals
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