



	Autumn		Spring		Summer	
	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Nursery	Ogden Trust Science Talk books: Brown Bear, Brown Bear. WOW! Said the Owl Elmer	Ogden Trust Science Talk books: Peace at last	Ogden Trust Science Talk books: The Three little pugs Bear	Ogden Trust Science Talk books: Mr Archimedes Bath Three Billy Goats Gruff	Ogden Trust Science Talk books: Pip & Posy	Ogden Trust Science Talk books: What the Jackdaw Saw
	Understanding the world: Learning about the	Understanding the world:	Understanding the world:	Understanding the world:	Understanding the world:	Urderstanding the world:
	seasons and the seasonal changes	Learning about the seasons and the	<u>Living Things-</u> Animals (inc.	Learning about the seasons/seasonal	More confident to talk about what	Learning about the seasons and the
	which occur at this	seasonal changes	humans & plants)	charges which	they see, hear &	seasonal charges
	time of year	which occur at this	-Explore how to	occur at this time	feel	which occur at this
	-Talk about what	time of year	keep selves warm in	of year	8	time of year
	they see, hear &	σσ	Winter	0	Living Things-	8 8
	feel	-Begin to talk about	-Explore penguins	-Talk about some	Animals (inc.	-Talk about
	o	some likes/dislikes	&/or polar bears	likes/dislikes (wider	humans & plants)	likes/dislikes giving
	Living Things-		and name body	vocabulary)	-Continue to develop	reasons
	Animals (inc.	Living Things-	parts	Ū	an understanding of	
	humans & plants)	Animals (inc.	-Explore & rame	Living Things-	life cycles:	Living Things-
	-Identify & name	humans & plants)	other animals that	Animals (inc.	caterpillar-butterfly	Animals (inc.
	main parts	-Explore &	swim in cold	<u>humans & plants)</u>	-Learn to take care	humans & plants)
	-Name & talk about	understand the use	water/live in cold	-Begin to develop	of living things in	-Explore how to
	different pets	of some body parts	places	an understanding of	the outdoor space	keep themselves .coo
	-Match & name	-Name some	-Explore some	life cycles: own		in Summer
	baby to adult pet	woodland animals	animal habitats	growth sequence,	Materials	-Sun safety
	-Learn to touch	-Begin to explore	linked to Winter	rame and match	-Use all their senses	-Name and talk
	living things	different animal	theme	baby-adult farm	in hands on	about different wild
	carefully	habitats linked to	-Look after birds in	animals,	exploration of a	animals-how they
		Autumn time	Winter	planting/observing	range of materials	look and how they
				seeds grow	extending curiosity	move e.g. jumping
				Naming basic parts	-Name common	kangaroos,
				of a flower	materials	stomping elephants

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Nursey	Materials	Materials	Materials		-Describe properties	-Explore & talk
•	-Begin to use some	-Begin to use some	-Begin to use all	Materials	of materials they	about different to
continued	senses in hand on	senses in hand on	their senses in	-Explore collections	like/dislike	travel using
	exploration of	exploration of	hands on	of materials with		different body parts:
	natural materials,	natural materials,	exploration of	similar and/or	<u>How Things Work</u>	walk, run, jump,
	developing curiosity:	developing curiosity:	natural materials,	different properties	-Explore and talk	roll etc.
	free exploration	identifying	developing curiosity	-Begin to experiment	about different	-Become more
	-Begin to explore	likes/dislikes	-Begin to talk about	with	forces they can feel	independent to take
	collections of	-Begin to explore	some properties of	grouping/sorting	(push/pull)	care of living
	materials with	collections of	different materials:	different objects by		things in the
	similar &/or	materials with	same/different,	property or material,		outdoor space
	different properties:	similar &/or	hard/soft, wet/dry,	e.g. things that		
	collect & name	different properties:	cold/warm etc	float, sink etc		Materials
	groups of Autumn	Experiment with	-Begin to name			-Make some
	objects	grouping/sorting	some common	<u>Haw Things Work</u>		comparisons
		different objects by	materials: wood,	-Explore mechanical		between materials
	How Things Work	theme/property, e.g.	plastic, metal	toys & talk about		-Begin to group
	-Explore how	Autumn collection	-Begin to notice &	how they move		materials & label
	familiar things		talk about how			Begin to notice
	work: favourite toy	How Things Work	properties of			how properties of
	-Explore different	-Explore how	materials change:			materials change,
	forces & to use	familiar things	ice-melting, water-			e.g. water gets
	language of push	work: decoration	freezing			warm in sun
	and pull	-Continue to explore				-Learn hope to make
		different forces &	<u>Haw Things Work</u>			bubbles (Pip & Posy
		use language of	-Explore and talk			book)
		push and pull	about different			
			forces they can feel			How Things Work
						-Explore how
						vehicles travel on
						different gradients
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	Ogden Trust Science	Ogden Trust Science	Ogden Trust Science	Ogden Trust Science	Ogden Trust Science	Ogden Trust Science
Reception	Talk books:	Talk books:	Talk books:	Talk books:	Talk books:	Talk books:
	The Gruffalo's child	Look up!	Teatime around the	Goldilocks & the	Lumberjack's bear	Dachy's Dear
	(light & dark/	Astro Girl	world	three bears	How to find gold	(sound and
	shadows)	(Space & Earth)	(Materials)	The princess and	(floating & sinking)	hearing)
		(Sprice & Lind)	(WILLER MUS)	the Pea	guining & surving	My Ocean is Blue
	Shadows	Space	Magnets	(Materials/ changing	Reflective materials	(colour/ senses/
	 Torches, sources 	 Google Earth 	 Racing with 	state/ insulation)	 Sensory Tent- 	(xaterials)
	of light/	 Making Planets 	magnets.		coloured lenses.	
	silhouettes.	 Seasonal 	 Seasonal 	Growing and	 Seasonal 	Animals & Birds
	 Seasonal 	Change	Change	Changing:	Change	 Naming different
	Change	 Meteor Showers 	Citurige		 Floating & 	animals and
	Citarige	- Millieur Srumers	The Natural World:	 Life Cycle of Duckling 	sinking	birds e.g.
	The Natural World:	The Natural World:	 Continue to 	 Plants: how and 	suukulug	explore different
	 Identify, name 	 Explore how 	observe and	what plants	The Natural World:	breeds and
	and talk about	different body	describe	need to grow,	 Name some 	explore
	different body	parts work	seasonal	 Parts of a plant 	different sea life	similarities and
	parts (elbows,	(bend, stretch,	changes.	(flowering) and	creatures (turtle,	differences.
	knee, eyebrows	point).	 Name different 	varieties of	pelican etc).	(Preparation for
	etc).	 Understand how 	wild animals	plants.	 Understand the 	learning about
	 Explore the 	humans grow –	that live in cold	 Understand 	reed to respect	classification in
	senses and	sequence from a	and hot places.	different types of	and care for the	Year 1)
	begin to	baby to an	 Observe and 	plants.	natural	 Caring for
	understand their	adult in	talk about the	 Juintis. Seasonal 	ervironment.	animals (e.g. Pet
	purpose (look,	photographs.	different	- Seusoriui Change	 Begin to sort 	shop/Farm).
	hear, feel/touch,	Talking about	characteristics	Citulige	and group	 Seasonal
	taste, smell).	key changes.	of each animal.		different	Change
	 Name different 	 Begin to 	 Name and talk 	The Natural World:	materials –	Citurige
	pets and some	recognise and	about different	 Continue to 	recycling (glass,	The Natural World:
	key features (e.g.	rame some	habitats of	observe and	wood, plastic).	 Develop an
	paws).	familiar plants	animals in cold	describe	 Identify and 	understanding
	 Use senses to 	and animals in	and hot places.	seasonal	rane some	of the
	explore the	the local	 Discuss the 	changes.	minibeasts and	differences
	natural world.	environment (oak	contrasting	 Begin to and 	animals that	between wild
	 Begin to identify 	tree, squirrel,	environments in	talk about what	have wings -	animals and
	- Begit to therity	rabbits).	focus texts.	animals reed to	understand why	farm animals
	different	 Begin to 	 Describe what 	survive.	animals may	and discuss.
	everyday	understand the	they see, hear	 Observe and 	have wings.	 Name different
	materials	effects of the	and feel whilst	begin to talk	source sive ups.	farm animals
	(wood, metal,	changing	outside with	about the		(mothers and
	glass).	seasons in the	increasing	lifecycle of a		babies).
	guiss).		confidence and	seed/plant.		sources 2/ .
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Reception continued	Understand 'same' and 'different' in relation to materials. Provision opportunities: Light & night/shadows Seasons/Autumn	world around them. Use senses to explore the natural world, developing concentration and observational skills (autumn objects: leaves, conkers etc). Provision opportunities: Space/The Night Sky	a wider range of vocabulary. Explore and talk about the properties of water (ice, snow - hard, soft, freeze, melt). Provision opportunities: Look at natural and man-made features - inventions (physical and human features year I link)	 Name some key parts (seed, plant, stem). Name elements of how to plant/grow a plant (seed, soil, water, sun etc.) Name some key features of plant growth. Talk about the importance of plants and how we should handle living things with care. Discuss similarities and differences between flowers/plants/s eeds Observe, predict and talk about the lifecycle of a ducking - watching ducklings hatch from eggs. 	Provision opportunities: Seaside/sea life. Autumnal nature. Features of a map. Seasons/Summer	Provision opportunities: Seasons/summer. Animals - where they live/what they eat etc. (farm vs wild).
				Observe, predict and talk about the lifecycle of a ducking - watching ducklings hatch from eggs. Provision opportunities:		
				Seasons/spring New life/life cycles/ducklings. Seeds and growing plants. Insects/minibeast. Cities and rural areas.		

Key Stage I	Physics									
0 0	Investigating seasonal changes – covered across the year in both cycles									
Cycle A	Biology Animals including	Biology Animals including	Biology Plants	Chemistry Everyday Materials Identify and name everyday materials and their properties Distinguish between an object and the material it is made from.						
2023-2024	humans Body parts and senses	humans Naming and classifying a wide variety of animals	Identify common British trees and plants. Key parts of plants including trees,							
		Investigating	Physics seasonal changes- covered across the year	in both cycles						
				-	0. 1					
Key Stage I	Biology Living things and their	Chemistry Everyday Materials	Biology Animals including humans	Biology Plants	Biology Living things and their					
Cycle B 2024-2025	habitats	Distinguish between an object and the material it is made from. Identify and name everyday materials. Uses of materials, changing shape of materials	Offspring, reeds for survival, healthy living	How seeds grow into plants, what plants need to grow. Identify and describe basic structure of common plants including trees.	habitats Living/dead, habitats, mini- beasts, food chains					
Year Three			Bialagy							
	Plants – gathering evidence of plant life cycles taught across the year									
	Biology	Chemistry	Physics	Biology	Physics					
	Animals including humans	Rocks and soils	Forces	Plants	Light					
	Nutrition, skeletons and muscles.	Compare and grouping rocks based on their appearance and simple physical properties. Fossils and soils.	Compare how things move on different surfaces. Magnetism and magnetic materials.	Functions of the parts of flowering plants Requirements of variety of plants for life and growth. Investigate the way in which water is transported within plants. Role of flowers in the life cycle of flowering plants.	Requirement of light to see, darkness is the absence of light, light is reflected from surfaces. Sun safety Shadows					

Year Four	Biology Living things and their habitats - naming and identifying living things in the local environment taught across the year									
	Physics	Physics Chemistry				Biology	Physics			
	Electricity		States of matter		Biology Animals including humans	Habitats	Sound			
	Common electrical appliances. Construct and name parts in a simple series electrical circuit. Switches, conductors and insulators.	Compare and group materials into solids, liquids and gases. Observing and measuring changes of state. The role of evaporation and condensation in the water cycle.			Human digestive system. Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains. Identify carnivores, herbivores and omnivores.	Living things can be grouped in a variety of ways. Classification keys. Environmental changes and their impact on living things.	How sounds are made. How vibrations travel through a medium to the ear. Pitch and volume.			
Year Five	Biology		Biology	Physics	Physics	Chemistry	Chemistry			
	Living things a habitats		Animals including	Forces	Earth and Space	Properties of materials	Changes of materials			
	Describe the differen		humans	Gravity, air	Movement of the	Compare and group				
	life cycles of a ma		Changes	resistance, water	Earth, and other	everyday materials incl	Dissolving,			
	amphibian, an inse bird.	ct and a	as	resistance and friction.	planets, relative to the Sun in the solar	uding by their	mixing and			
	Describe the life pro	icess of	humans develop to	Mechanisms	system.	hardness, solubility, transparency,	changes of state are reversible			
	reproduction in sor and plants		old age.	including gears, levers and pulleys.	Movement of the moon in relation to the Earth	conductivity and response to magnets. Know that some	changes. Some changes result in the			
					Day and night.	materials dissolve in liquid to form a solution.	formation of new materials, and that this kind of			
						Separating mixtures. Uses of materials based on comparative	change is not usually reversible.			
						tests.				

Year Six	Physics	Biology	Biology	Biology	Physics
	Electricity	Living things and	Animals including	Evolution and inheritance	Light
	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols when representing a simple circuit in a diagram.	their habitats Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- organisms, plants and animals. Give reasons for classifying plants and animals based on specific characteristics.	humans Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Impact of diet, exercise, drugs and lifestyle on the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans.	Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.	Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. Explain that we see things because light travels from light sources to objects and then to our eyes. Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.