

<u>Science</u>



Whole School Overview

Science Overview						
	Autumn	Spring	Summer			
Nursery 2-3	My Day Autumn 1	Our Pets Spring 1	Making Music Summer 1			
Topic	What's in the garden? Autumn 2	Farm Animals Spring 2	Musical Stories Summer 2			
Term and	Autumn	Spring	Summer			
<u>Focus</u>	To explore texture and materials	To name a variety of different animals.	To explore how instruments make different sounds.			
	New Learning	Nursery 2-3 Autumn	New Learning			
Prior Learning		Children will explore different animals that live in the				
		garden				
	Nursery 3-4 Autumn	Nursery 3-4 Spring	Nursery 3-4 Summer			
<u>Future</u> Learning	Children will be labelling objects due to their texture.	Children will learn to label a variety of different	Children will be developing this descriptive language			
<u> </u>		animals	through exploring different materials.			
Nursery 3-4	Marvellous Me Autumn 1 – What's on Wood Street?	People Who Help Us Spring 1 – Our Garden Spring 2	Little Explorers Summer 1 – Let's Pretend Summer 2			
Topic	Autumn 2					
Term and	Autumn	Spring	Summer			
Focus	To name and label rough and smooth objects.	Growth (Plants) – naming parts of a plant and exploring planting.	Talk about the differences between materials and the changes they notice.			

	Nursery 2-3	Spring	Nursery 2-3	Autumn	Nursery 3-	4 Spring
Prior Learning	Exploring textures a	and materials	Labelling n	naterials	Observing changes	
Future	Nursery 3-4	Spring	Year R – S	Spring 2	Year R - S	ummer
<u>Learning</u>	labelling ob	jects	Children will explore what climates when learning		Observing and commenting different env	
Veer D Terrie	We are Superheroe	es Autumn 1	Wonderful Waltha	mstow Spring 1	Traditional Tal	es Summer 1
Year R Topic	Celebrations A	utumn 2	Little Investigat	cors! Spring 2	Modern Tale	s Summer 2
	Autumi	n	Sprii	ng	Sumr	ner
Term and Focus	Cooking – Investigating states and healthy eating/ healthy teeth		Children learn about the natural world around them (seasons).		Recognise that some environments are different from the ones in which they live.	
					Describe what they hear, see and feel whilst outside.	
	Nursery 3-4 Spring		Nursery 3-4 Summer		Year R Spring	
Prior Learning	Children will have explored cooking and self- regulation/care.		Children will have looked at what plants need to grow.		Children will have practised observing and commenting on different environments due to describing seasons.	
	Year 1 - Sp	ring	Year 1 – Autumn		Year 1 - A	utumn
<u>Future</u> <u>Learning</u>	Animals and humans- ic	dentify & observe	Seasons		Seasons	
			Earth and Space- Seasonal changes		Earth and Space- Seasonal changes	
Year 1						
Term and Focus	Materials- properties and classifying	Seasons* Earth and Space- Seasonal changes	Animals and humans- types of animals, body parts, diet & lifestyle	Living Things – living/non-living, habitats, draw food chain	Evolution & Inheritance – family resemblance parents & children	Light & seeing – light sources, light travels in straight lines

					Movement, forces & magnets – pushes and pulls, describing movement	Sound & Hearing – sound sources, recognising sounds
					Plants- naming plants & structure	
	Year R – Summer	Year R – Summer	Year R Autumn 1	Year R Summer – different environments, Autumn – healthy diet	Evolution & Inheritance – new learning	Nursery 2-3 – Summer – exploring instruments
Prior Learning					Movement force & magnets – new learning	
					Plants - Reception Spring – natural world	
	Year 2 Spring 1- suitability of materials	Year 2 Spring 2 – Earth & Space (Seasonal changes, day length, shadows)	Year 2 Autumn - offspring to adults & exercise	Year 2 – Summer - Living Things (compare living/non-living, compare food chains, design habitats)	Evolution & Inheritance – Year 2 Autumn 2 (family resemblance)	Year 2 - Autumn – Light & Seeing (experiment with blocking light)
<u>Future</u> <u>Learning</u>					Movement force & magnets – Year 2 Spring 2 (comparing movement)	Year 2 – Autumn – Sound & Hearing (experiment with blocking sounds, comparing/categorising sound)
					Plants – Year 2 Summer 1 (conditions for growth,	

					comparing plants,	
					deciduous/evergreen trees)	
Year 2						
	Sound & Hearing (experiment with blocking sounds, comparing/categorising sound)	Animals and Humans- Comparing animals, diet and exercise	Materials- suitability of materials	Earth & Space (Seasonal changes, day length, shadows)	Plants (conditions for growth, comparing plants, deciduous/evergreen trees)	Living Things (compare living/non-living, compare food chains, design habitats)
<u>Term and</u> <u>Focus</u>	Light & Seeing (experiment with blocking light)			Movement force & magnets (comparing movement)		
	Evolution & Inheritance (family resemblance)					
Prior Learning	Y1 Light & Seeing – light sources, light travels in straight lines	Y1 Spring 1 - Animals and humans- types of animals, body parts, diet & lifestyle	Year 1 Autumn- properties and classifying	Y1 Autumn 2 - Seasons* Earth and Space- Seasonal changes	Year 1 Summer- naming plants & structure	Y1 Spring - Living Things – living/non-living, habitats, draw food chain
	Y1 Sound & Hearing – sound sources, recognising sounds					
	Y1 Evolution & Inheritance (family resemblance, parents & children)					
Future Learning	Year 3 Summer - Light & Seeing- properties of light, shadows, darkness	Year 3 Autumn – Animals & Humans (nutrition, digestive system,	Year 3 Summer – Materials (changes of state, rocks)	Y3 Light & Sound – shadows	Year 3- Autumn- nutrition, transport, pollination and dispersal	Year 3 Spring – Living Things – contrasting

		muscular & skeletal)				habitats, classification
	Year 3 Summer - Sound & Hearing – how sound travels	mascalar & skeletary		Y5 Earth & Space – solar system		keys
	Year 3 Summer - Materials – formation of fossils (links to evolution & inheritance)			Y3 Movement, forces & magnets (friction, magnetism)		
	Year 5 Autumn 2 – Evolution & Inheritance (Fossils, living things and their offspring, evolution)					
Year 3						
	Materials - Rocks and Fossils, states of matter	Animals & Humans (nutrition, digestive system, muscular & skeletal, food chains)	Electrical Circuits - (sources, series circuits)	Movement, forces & magnets (friction, magnetism)	Plants- nutrition, water transport, pollination and dispersal	Light & Seeing- properties of light, shadows, darkness
<u>Term and</u> <u>Focus</u>				Living Things – contrasting habitats, classification keys		Sound & Hearing – how sound travels
Prior Learning	Year 2 Spring – properties of materials including rocks	Year 2 Autumn 1- Animals and Humans- Comparing animals, diet and exercise	New learning	Y2 Spring - Movement force & magnets (comparing movement)	Year 2 Summer - Plants (conditions for growth, comparing plants, deciduous/evergreen trees)	Year 2 – Spring – Earth & Space – position of sun

		Y2 – Summer – Living Things – food chains		Y2 Summer - Living Things (compare living/non-living, compare food chains, design habitats)		Year 2 – Autumn – Light & Seeing – blocking light sources
						Year 2 – Autumn - Sound & Hearing (experiment with blocking sounds, comparing/categorising sound)
Future Learning	Year 4 – Materials – rocks and fossils, states of matter	Year 4 Summer 2- Animals & Humans (nutrition, digestive system, muscular & skeletal, food chains)	Year 4 Spring 1 – Electrical Circuits - (Series circuits, switches, conductors/insulators)	Year 4 – Summer 1 – Movement forces & magnets (movement on different surfaces, friction, magnetism) Y4 – Summer - Living things- grouping living things, habitats, changing environments	Year 4 Summer 2 – Plants (conditions for growth, pollination, water transportation)	Year 4 – Light and Seeing – reflections and shadows Year 4 – Sound and Hearing – experiment with vibrations to produce sounds
Year 4						
<u>Term and</u> <u>Focus</u>	Materials – rocks and fossils, states of matter	Movement, Forces and Magnets – (movement on different surfaces, friction, magnetism) Living things- grouping	Electrical Circuits - (Series circuits, switches, conductors/insulators)	Sound and Hearing – experiment with vibrations to produce sounds Light and Seeing –	Plants (conditions for growth, pollination, water transportation)	Animals and Humans- (nutrition, muscles, skeleton, digestive system, teeth)
		living things- grouping living things, habitats,		Light and Seeing –		

		changing environments		reflections and shadows		
Prior Learning	Y3 Spring - Materials - Rocks and Fossils, states of matter	Year 3 – Spring 2 - Movement, forces & magnets (friction, magnetism) Year 3 – Spring 2 – Living Things – contrasting habitats, classification keys	Y3 – Spring - Electrical Circuits - (sources, series circuits)	Y3 – Summer - Sound & Hearing – how sound travels Y3 – Summer - Light & Seeing- properties of light, shadows, darkness	Y3 – Autumn - Plants- nutrition, water transport, pollination and dispersal	Year 3 Autumn 2- Animals & Humans (nutrition, digestive system, muscular & skeletal, food chains)
Future Learning	Year 5 Autumn 2 – Materials – solubility, reversible/irreversible changes	Year 5 Autumn 1 – Movement, Forces and Magnets (Drag forces, levers, pulleys and gears) Year 5 Spring 1 – Living Things (Classification Keys, Life cycles, reproduction in animals and plants)	Y5 – Summer – Electrical Circuits – (circuit symbols, experiment with different combinations of components)	Y5 – Sound & Hearing – pitch, volume, how sound diminishes as it travels Y5 – Light & Seeing – how light travels, how we see	Y5 – Spring – Living Things – reproduction in plants	Year 5 Spring 2- Animals & Humans (changes as we age, circulatory system, healthy lifestyle)
Year 5	1					
Term and Focus	Movement, Forces and Magnets (Drag forces, levers, pulleys and gears)	Materials – solubility, reversible/irreversible changes	Living Things (Classification Keys, Life cycles, reproduction in animals and plants)	Animals & Humans (changes as we age, circulatory system, healthy lifestyle)	Earth and Space- planets and solar system Electrical Circuits (Using electrical symbols,	Sound & Hearing (characteristics of objects that produce sounds, how sound changes as it travels)

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			Evolution and Inheritance		observing effect of changing	
			(Fossils, living things and		components in a circuit)	Links O. Control /hours links
			their offspring, evolution)			Light & Seeing (how light
						travels, how we see, how
						shadows are formed)
Prior Learning	Year 4 – Summer 1 -	Year 4 – Autumn 1 -	Year 4 Summer 1 – Living	Year 4 Summer 2-	Year 4 – Light and Seeing	Year 4 – Spring 2 - Sound
	Movement, Forces and	Materials – rocks and	Things (grouping living	Animals and Humans-	(links to Earth & Space) –	and Hearing – experiment
	Magnets – (movement on	fossils, states of matter	things, habitats, changing	(nutrition, muscles,	observing shadows	with vibrations to
	different surfaces, friction,		environments)	skeleton, digestive		produce sounds
	magnetism)		Crivil Orinicites)	system, teeth)		produce sounds
	magnetism)			system, teetii)		
					Year 2 – Earth & Space	
			Year 4 Autumn 1-		(seasons)	Year 4 – Spring 2 – Light
					(Scusons)	and Seeing (reflections
			Materials (Formation of			= 1
			fossils)			and shadows)
					Year 4 – Electrical Circuits	
					(Series circuits, switches,	
			V2 At 2			
			Year 2 Autumn 2 –		conductors/insulators)	
			Evolution & Inheritance			
			(Family resemblance)			
<u>Future</u>	Year 6 Spring 1 - Movement,	Year 6 Autumn 2 -	Year 6 – Summer 1 - Living	Year 6 Spring - Animals &	Year 6 – Summer – Earth &	Year 6 – Autumn 1 – Light
<u>Learning</u>	Forces and Magnets (Drag	Materials – separating	Things (Classification Keys,	Humans (investigate	Space (earth & moon's	& Seeing (how light
	forces, levers, pulleys and	solutions, investigating	Life cycles, reproduction in	changes as we age,	movement, tides, spherical	travels, periscopes,
	gears)	evaporation and	animals and plants)	human heart, veins,	bodies)	reflection & refraction)
		condensation,		arteries, capillaries,		·
		reversible/irreversible		healthy lifestyle)		
		·		incutting intestyle)		
		changes	Year 6 – Spring 1 -		Year 6 – Summer – Electrical	Year 6 – Autumn – Sound
			Evolution and Inheritance		Circuits (voltage, resistance,	and Hearing (what affects
			(categorising fossils,		electrical symbols,	the volume of sound)
			categorise differences		comparing circuits)	and volume of sourid)
			-		companing circuits)	
			between living things and			

			offspring, evolution and			
			adaptation)			
Year 6						
Term and Focus	Light & Seeing (how light travels, periscopes, reflection & refraction) Sound and Hearing (what affects the volume of sound)	Materials – separating solutions, investigating evaporation and condensation, reversible/irreversible changes	Movement, Forces and Magnets (Drag forces, levers, pulleys and gears) Evolution and Inheritance (categorising fossils, categorise differences between living things and offspring, evolution and adaptation)	Animals & Humans (investigate changes as we age, human heart, veins, arteries, capillaries, healthy lifestyle)	Living Things (How and why scientists Classify living things, Life cycles, reproduction in animals and plants)	Earth & Space (earth & moon's movement, tides, spherical bodies) Electrical Circuits (voltage, resistance, electrical symbols, comparing circuits)
Prior Learning	Year 5 – Summer - Light & Seeing (how light travels, how we see, how shadows are formed)	Year 5 – Autumn 2 - Materials – solubility, reversible/irreversible changes	Year 5 – Autumn 1 - Movement, Forces and Magnets (Drag forces, levers, pulleys and gears)	Year 5 – Spring 2 - Animals & Humans (changes as we age, circulatory system, healthy lifestyle)	Year 5 - Spring 1 - Living Things (Classification Keys, Life cycles, reproduction in animals and plants)	Year 5 – Summer 1 - Earth and Space- planets and solar system Year 5 – Summer 1 -
	Year 5 – Summer - Sound & Hearing (characteristics of objects that produce sounds, how sound changes as it travels)		Year 5 – Spring 2 - Evolution and Inheritance (Fossils, living things and their offspring, evolution)			Electrical Circuits (Using electrical symbols, observing effect of changing components in a circuit)
<u>Future</u> <u>Learning</u>	KS3	KS3	KS3	KS3	KS3	KS3