Events from

the past impact

on our lives

Understand your impact & significance within the world you live

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Subject Leader Progression Document Science

Science
All Living Things

Importance of collaboration

Build resilient, confident & independent learners Embed RWM across all subjects

Thrive & flourish in a global society

Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Skill	Can they name and describe some plants and animals that children are likely to see., encourage children to recognise familiar plants and animals whilst outside? Can they explore the natural world around them, making observations and drawing pictures of animals and plants? Do they know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class?	11	Can they match certain living things to the habitats they are found in? Can they explain the differences between living and non-living things? Can they describe some of the life processes common to plants and animals, including humans? Can they decide whether something is living, dead or non-living? Can they describe how a habitat provides for the basic needs of things living there? Can they describe a range of different habitats? Can they describe how plants and animals are suited to their habitat?	13	Can they recognise that living things can be grouped in a variety of ways? Can they explore and use a classification key to group, identify and name a variety of living things? (Plants, vertebrates, invertebrates) Can they compare the classification of common plants and animals to living things found in other places? (under the sea, prehistoric) Do they recognise that environments can change and this can sometimes pose a danger to living things?	Can they describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird? Can they describe the life cycles of common plants? Can they explore the work of well know naturalists and animal behaviourists? (David Attenborough and Jane Goodall)	Can they describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences including microorganisms, plants and animals? Can they give reasons for classifying plants and animals based on specific characteristics?

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Subject Leader Progression Document **Science**

Animals Including Humans

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Relate current learning with past learning

EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Can they name describe some pand animals that children are like see., encourage children to reconfamiliar plants a animals whilst of them, making observations and drawing picture animals and plate. Do they know some similarities and differences between the natural world and them are contrasting environments, on their experies and what has bein class?	some of the differences between different animals? Can they sort photographs of living things and non-living things? Can they identify and name a variety of common animals? (birds, fish, amphibians, reptiles, mammals, invertebrates) Can they describe how an animal is suited to its environment? Can they identify and name a variety of common animals that are carnivores, herbivores and omnivores? Can they name the	survival? (water, food, air) Can they describe why exercise, balanced diet and hygiene are important for humans?	Can they explain the importance of a nutritionally balanced diet? Can they describe how nutrients, water and oxygen are transported within animals and humans? Can they identify that animals, including humans, cannot make their own food: they get nutrition from what they eat? Can they describe and explain the skeletal system of a human? Can they describe and explain the muscular system of a human?	Can they identify and name the basic parts of the digestive system in humans? Can they describe the simple functions of the basic parts of the digestive system in humans? Can they identify the simple function of different types of teeth in humans? Can they compare the teeth of herbivores and carnivores? Can they explain what a simple food chain shows? Can they construct and interpret a variety of food chains, identifying producers, predators and prey?	Can they describe the changes as humans develop to old age?	Can they identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood? Can they recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function? Can they describe the ways in which nutrients and water and transported within animals, including humans?

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Subject Leader Progression Document

Science **Animals Including Humans**

across all subjects

Embed RWM

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	Importance
Events from	of
LVEIRS HOIH	collaboration

Ruild resilient

Relate current

Know &

the past impact on our lives	collaboration	confident & independent learners	learning with past learning	remember more
	human body and link			
	them to their senses?			
	9.Can they name the			
	parts of an animal's			
	body?			
	10.Can they name a			
	range of domestic			
	animals?			
	11.Can they classify			
	animals by what they			
	eat? (carnivore,			
	herbivore, omnivore)			
	12.Can they compare			
	the bodies of different			
	animals?			

Understand your impact & significance within the world you live

Importance

of

collaboration

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Subject Leader Progression Document

Science Earth and Space

Events from the past impact on our lives

Build resilient, confident & independent learners Embed RWM across all subjects

Thrive & flourish in a global society

Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6	
Skill	Can they draw attention to the weather and seasonal features? Can they note and record the weather? Can they explore the natural world around them.? Can they observe and interact with natural processes, such as ice melting, a sound causing a vibration?	Y1	Y2	Y3	Y4	Can they identify and explain the movement of the Earth and other plants relative to the sun in the solar system? Can they explain how seasons and the associated weather is created? Can they describe and explain the movement of the Moon relative to the Earth?	Y6	
	Encourage focused observation of the natural world.					Can they describe the sun, earth and moon as approximately spherical bodies? Can they use the idea of the earth's rotation to explain day and night and the apparent movement of the sun across the sky?		

Events from

the past impact

on our lives

Understand your impact & significance within the world you live

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Subject Leader Progression Document

Science Electricity

Importance of collaboration

Build resilient, confident & independent learners Embed RWM across all subjects

Thrive & flourish in a global society

Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Skills	Can they explore the natural world around them and make observations?				Can they identify common appliances that run on electricity?		Can they identify and name the basic parts of a simple electric series circuit? (cells, wires,
					Can they construct a simple series electric circuit?		bulbs, switches, buzzers)
					Can they identify and name the basic part in a series circuit, including cells, wires, bulbs, switches and buzzers? Can they identify whether or not a lamp		Can they compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers, the on/off position of switches?
					will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery?		Can they use recognised symbols when representing a simple circuit in a diagram?
					Can they recognise that a switch opens and closes a circuit?		
					Can they associate a switch opening with whether or not a lamp		

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Subject Leader Progression Document **Science**

Electricity

Events from of the past impact collaboration on our lives

of Build resilient, confident & independent learners

Relate current learning with past learning

		lights in a simple series circuit?	
		Can they recognise some common conductors and insulators?	
		Can they associate metals with being good conductors?	

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Subject Leader Progression Document **Science**

Evolution and Inheritance

Events from the past impact on our lives Importance of collaboration

Build resilient, confident & independent learners Embed RWM across all subjects

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Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Skill	Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and						Can they recognise that living things have changed over time and that fossils provide information about living things that inhabited the earth millions of years ago?
	contrasting environments, drawing on their experiences and what has been read in class. Understand some important process and changes in the natural						Can they recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents?
	world around them,						Can they give reasons why offspring are not identical to each other or to their parents?
							Can they explain the process of evolution and describe the evidence for this?
							Can they identify how animals and plants are adapted to suit their environment in different ways and that

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Science **Evolution and Inheritance**

Events from the past impact on our lives

Importance of collaboration

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			adaptation may lead to
			evolution?

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Subject Leader Progression Document Science Science Rosberville Rambed RWM across all subjects

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Science Forces and Magnets

Events from the past impact on our lives Importance of collaboration

Build resilient, confident & independent learners Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Skill	Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Encourage interactions with the outdoors to foster curiosity and give children freedom to touch, smell and hear the natural world around them during hands-on experience. Observe and interact with natural processes, such as ice melting, a sound causing a vibration			Can they compare how things move on different surfaces? Can they observe that magnetic forces can be transmitted without direct contact? Can they observe how some magnets attract or repel each other? Can they classify which materials are attracted to magnets and which are not? Can they notice that some forces need contact between two objects, but magnetic forces can act at a distance? Can they compare and group together a variety of everyday materials on the basis of whether		Can they explain that unsupported objects fall towards the earth because of the force of gravity acting between the earth and the falling object? Can they identify the effects of air resistance, water resistance and friction that act between moving surfaces? Can they recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect?	

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Science Forces and Magnets

Events from
the past impact
on our lives

Importance of collaboration

Build resilient, confident & independent learners Relate current learning with past learning

	they are attracted to a magnet?	
	Can they identify some magnetic materials?	
	Can they describe magnets have having two poles (N & S)?	
	Can they predict whether two magnets will attract or repel each other depending on which poles are facing?	

Events from

the past impact

on our lives

Understand your impact & significance within the world you live

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Subject Leader Progression Document **Science**

Science Light

Importance of collaboration

Build resilient, confident & independent learners Embed RWM across all subjects

Thrive & flourish in a global society

Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Skill	Explore the natural			Can they recognise that			Can they recognise that
	world around them.			they need light in order to see things?			light appears to travel in straight lines?
	Encourage interactions						
	with the outdoors to			Can they recognise that			Can they use the idea
	foster curiosity and give			dark is the absence of			that light travels in
	children freedom to			light?			straight lines to explain
	touch, smell and hear the natural world						that objects are seen because they give out
	around them during			Can they notice that light is reflected from			or reflect light into the
	hands-on experience.			surfaces?			eye?
				surruces.			
	Observe and interact			Can they recognise that			Can they explain that
	with natural processes,			light from the sun can			we see things because
	such as ice melting, a			be dangerous and that			light travels from light
	sound causing a vibration.			there are ways to			sources to our eyes or from light sources to
	VIBIACION.			protect their eyes?			object s and then to our
	Describe what they see,			Can they recognise that			eyes?
	hear and feel whilst			shadows are formed			
	outside Encourage			when the light from a			Can they use the idea
	focused observation of			light source is blocked			that light travels in
	the natural world.			by a solid object?			straight lines to explain why shadows have the
	Understand some						same shape as the
	important process and			Can they find patterns in the way that the size			objects that cast them?
	changes in the natural			of shadows change?			
	world around them,			or stradows change.			
	including the seasons						

Events from

the past impact

on our lives

Understand your impact & significance within the world you live

Ro Gethele English

Embed RWM across all subjects

Thrive & flourish in a global society

Subject Leader Progression Document Science Light

of Build resilient, confident & independent learners

Importance

Relate current learning with past learning

and changing states of		
matter.		

Events from

the past impact

on our lives

Understand your impact & significance within the world you live





Subject Leader Progression Document

Science **Everyday Materials**

Properties of Materials

Importance of collaboration

Build resilient, confident & independent learners **Embed RWM** across all subjects

Thrive & flourish in a global society

Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Skill	Can they understand	Can they distinguish	Can they describe the			Can they compare and	
	some important process	between an object and	simple physical			group together	
	and changes in the	the material from which	properties of a variety			everyday materials on	
	natural world around	it is made?	of everyday materials?			the basis of their	
	them, including the	Can they describe	Can they compare and			properties, including	
	seasons and changing	materials using their	group together a variety			hardness, solubility,	
	states of matter?	senses?	of materials based on			transparency,	
		Can they describe	their simple physical			conductivity (electrical	
	Encourage interactions	materials using their	properties?			and thermal), and	
	with the outdoors to	senses, using specific	Can they explore how			response to magnets?	
	foster curiosity and give	scientific words?	the shapes of solid			Can they explain how	
	children freedom to	Can they explain what	objects can be			some materials dissolve	
	touch, smell and hear	material objects are	changed? (squashing,			in liquid to form a	
	the natural world	made from?	bending, twisting,			solution?	
	around them during	Can they explain why a	stretching)			Can they describe how	
	hands-on experience.	material might be	Can they find out about			to recover a substance	
		useful for a specific job?	people who developed			from a solution?	
	Observe and interact	Can they name some	useful new materials?			Can they use their	
	with natural processes,	different everyday	(John Dunlop, Charles			knowledge of solids,	
	such as ice melting, a	materials? e.g., wood,	Macintosh, John			liquids and gases to	
	sound causing a	plastic, metal, water	McAdam)			decide how mixtures	
	vibration	and rock	Can they identify and			might be separated,	
		Can they sort materials	compare the suitability			including through	
		into groups by a given	of a variety of everyday			filtering, sieving,	
		criteria?	materials, including			evaporating?	
		Can they explain how	wood, metal, plastic,			Can they give reasons,	
		solid shapes can be	glass, brick, rock, paper,			based on evidence for	
		changed by squashing,	cardboard for particular			comparative and fair	
		bending, twisting and	uses?			tests for the particular	
		stretching?				uses of everyday	

Understand your impact & significance within the world you live

Subject Leader Progression Document

Science **Everyday Materials Properties of Materials**

Embed RWM across all subjects

Thrive & flourish in a global society

Importance

Ruild resilient

Relate current

Know &

on our lives	independent learners	
	Can they explain how things move on different surfaces?	materials, including metals wood and plastic? Can they describe changes using scientific words? (evaporation, condensation) Can they demonstrate that dissolving, mixing and changes of state are reversible changes? Can they explain that some changes result in the formation of new materials, and that this kid of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda? Can they use the terms 'reversible' and 'irreversible'?

Events from

the past impact

on our lives

Understand your impact & significance within the world you live

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Rosherville Church of England Primary Academy

Subject Leader Progression Document

Science Plants

Importance of collaboration

Build resilient, confident & independent learners Embed RWM across all subjects

Thrive & flourish in a global society

Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6	
Skill	Explore the natural	Can they name the	Can they describe what	Can they identify and				
	world around them.	petals, stem, leaf, bulb,	plants need to survive?	describe the functions				
	Encourage interactions	flower, seed, stem and	Can they observe and	of different parts of				
	with the outdoors to	root of a plant?	describe how seeds and	flowering plants?				
	foster curiosity and give	Can they identify and	bulbs grow into mature	(roots, stem/trunk,				
	children freedom to	name a range of	plants?	leaves and flowers)?				
	touch, smell and hear	common plants and	Can they find out &	Can they explore the				
	the natural world	trees?	describe how plants	requirement of plants				
	around them during	Can they recognise	need water, light and a	for life and growth (air,				
	hands-on experience.	deciduous and	suitable temperature to	light, water, nutrients				
		evergreen trees?	grow and stay healthy?	from soil, and room to				
	Describe what they see,	Can they name the		grow)?				
	hear and feel whilst	trunk, branches and		Can they explain how				
	outside	root of a tree?		they vary from plant to				
	· Encourage focused	Can they describe the		plant?				
	observation of the	parts of a plant (roots,		Can they investigate the				
	natural world.	stem, leaves, flowers)?		way in which water is				
	· Name and describe			transported within				
	some plants and			plants?				
	animals children are			Can they explore the				
	likely to see., encourage			part that flowers play in				
	children to recognise			the life cycle of				
	familiar plants and			flowering plants,				
	animals whilst outside.			including pollination,				
				seed formation and				
	Explore the natural			seed dispersal?				
	world around them,							
	making observations							
	and drawing pictures of							
	animals and plants.							
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Subject Leader Progression Document

Science Plants Embed RWM across all subjects Thrive & flourish in a global society

Events from the past impact on our lives	Importance of collaboration	Build resilient, confident & independent learners	Relate current learning with past learning	Know & remember more
Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.				

Understand your impact & significance within the world you live

Science Rocks

Embed RWM Subject Leader Progression Document

across all subjects

Thrive & flourish in a global society

Events from the past impact on our lives

Importance of collaboration

Build resilient, confident & independent learners Relate current learning with past learning

Skill	EYFS	Y1	Y2	Y3	V/A		
Skill			12	15	Y4	Y5	Y6
				Can they compare and			
				group together			
				different rocks on the			
				basis of their			
				appearance and simple			
				physical properties?			
				Can they describe and			
				explain how different			
				rocks can be useful to			
				us?			
				Can they describe and			
				explain the differences			
				between sedimentary			
				and igneous rocks,			
				considering the way			
				they are formed?			
				Can they describe in			
				simple terms how			
				fossils are formed when			
				things that have lived			
				are trapped within			
				rock?			
				Can they recognise that			
				soils are made from			
				rocks and organic			
				matter?			

Events from

the past impact

on our lives

Understand your impact & significance within the world you live

Science Rocks

Subject Leader Progression Document

Embed RWM across all subjects

Thrive & flourish in a global society

Importance of collaboration

Build resilient, confident & independent learners Relate current learning with past learning

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Understand your impact & significance within the world you live



Embed RWM across all subjects

Thrive & flourish in a global society

Science Seasonal Changes

Subject Leader Progression Document

Events from the past impact on our lives Importance of collaboration

Build resilient, confident & independent learners Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6	
Skill	Understand the effect of changing seasons on the natural world around them.	Can they observe changes across the four seasons?						
	Draw attention to the weather and seasonal features. Note and record the weather	Can they name the four seasons in order? Can they observe and describe weather associated with the seasons?						
	Observe how animals behave differently as the seasons change.	Can they observe and describe how day length varies?						

Events from

the past impact

on our lives

Understand your impact & significance within the world you live

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Subject Leader Progression Document

Science Sound

Importance of collaboration

Build resilient, confident & independent learners Embed RWM across all subjects Thrive & flourish in a global society

Relate current learning with past learning

	Seuss	Murphy	Donaldson	Dahl	Dahl	Rauf	Shakespeare
	EYFS	Y1	Y2	Y3	Rauf Y4	Y5	Y6
Skill	Encourage interactions with the outdoors to foster curiosity and give children freedom to touch, smell and hear the natural world around them during				Can they describe a range of sounds and explain how they are made? Can they associate some sounds with		
	around them during hands-on experience.				something vibrating? Can they compare sources of sound and explain how the sounds differ?		
					Can they explain how to change a sound (louder/softer)?		
					Can they recognise how vibrations from sound travel through a medium to a ear?		
					Can they find patterns between the pitch of a sound and features of the object that produce it?		

Understand your impact & significance within the world you live

Subject Leader Progression Document

Science Sound

Embed RWM across all subjects

Thrive & flourish in a global society

Events from the past impact on our lives	Importance of collaboration	Build resilient, confident & independent learners	Relate current learning with past learning	Know & remember more
		betweethe so streng vibrate produce. Can the sound the definition of the definition of the strength of the sound th	they find patterns reen the volume of ound and the igh of the tions that uced it? they recognise that ds get fainter as listance from the d source ases?	
		you c pitch Can t how c can a	chey explain how could change the of a sound? chey investigate different materials affect the pitch and me of sounds?	

Understand your impact & significance within the world you live

Importance

of

collaboration

Primary Primary

Subject Leader Progression Document

Science State of Matter

Events from the past impact on our lives

Build resilient, confident & independent learners Embed RWM across all subjects

Thrive & flourish in a global society

Relate current learning with past learning

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Skill	Understand some				Can they compare and		
	important process and				group materials		
	changes in the natural				together, according to		
	world around them,				whether they are solids,		
	including the seasons				liquids or gases?		
	and changing states of						
	matter.				Can they explain what		
					happens to materials		
					when they are heated		
					or cooled?		
					of cooled?		
					Can they measure or		
					research the		
					temperature at which		
					different materials		
					change state in degrees		
					Celsius?		
					Can they use		
					measurements to		
					explain changes to the		
					state of water?		
					state of water !		
					Can they identify the		
					part that evaporation		
					and condensation has in		
					the water cycle?		
					the water cycles		

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Subject Leader Progression Document Science

State of Matter

Events from the past impact on our lives

Importance of collaboration

Build resilient, confident & independent learners Relate current learning with past learning

		Can they associate the	
		rate of evaporation with	
		temperature?	
			<u> </u>