	Sci Programme of Stu	ence Idy Progression M	Nap
	Communication and La	nguage	Learn new vocabulary. • Ask questions to find out more and to check what has been said to them. • Articulate their ideas and thoughts in well-formed sentences. • Describe events in some detail. • Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. • Use new vocabulary in different contexts.
EYFS	Personal social and en	notional development	Know and talk about the different factors that support their overall health and wellbeing: - regular physical activity - healthy eating - toothbrushing - sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian
	Understanding the wo	rld	Explore the natural world around them. • Describe what they see, hear and feel while they are outside. • Recognise some environments that are different to the one in which they live. • Understand the effect of changing seasons on the natural world around them.
	Communication and Language	Listening attention and understanding	Make comments about what they have heard and ask questions to clarify their understanding
ELG	Personal, Social and Emotional Development	Managing Self	Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

		Understandi World	-		ural World	obser and pl differ them their class. and cl includ matte		ictures of animals nilarities and atural world around onments, drawing on t has been read in nportant processes world around them,
	Year 1	Year 2	Yea	ar 3	Year 4		Year 5	Year 6
Animals including Humans	 Pupils should be taught to: identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals; identify and name a variety of common animals that are carnivores, herbivores and omnivores; describe and compare the structure of a variety of common animals (fish, and animals animals animals and animals (fish, and animals animals animals and animals animals animals and animals animals and animals animals and animals animals and animals animals animals and animals and animals animals animals animals and animals animals and animals animals and animals animals and animals and animals animals and animals animals animals and animals animals animals and animals animals an	 Pupils should be taught to: notice that animals, including humans, have offspring which grow into adults; find out about and describe the basic needs of animals, including humans, for survival (water, food and air); describe the importance for humans of exercise, eating the right amounts of 	taught t • identif animals, humans the righ and am nutrition that th make th own foo get nutr from w eat; • identif humans other c have ske and mu support,	y that including s, need t types ount of n, and ney cannot eir od; they tition that they y that and some animals eletons scles for tion and	 Pupils should taught to: describe the simple funct of the basis parts of the digestive sin humans; identify the different ty of teeth in humand their simple funct construct of interpret a variety of chains, identifying producers, predators of prey. 	he ions c ystem e pes mans ctions; and food	Pupils should be taught to: • describe the changes as humans develop to old age.	 Pupils should be taught to: identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood; recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function; describe the ways in which nutrients and water are

	amphibians, reptiles, birds and mammals including pets); • identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	different types of food, and hygiene.			transported within animals, including humans.
Plants	 Pupils should be taught to: identify and name a variety of common wild and garden plants, including deciduous and evergreen trees; identify and describe the basic structure of a variety of common flowering plants, including trees. 	Pupils should be taught to: • observe and describe how seeds and bulbs grow into mature plants; • find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	 Pupils should be taught to: identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers; explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to 		

		grow) and how they vary from plant to plant;			
		 investigate the way in which water is transported within plants; 			
		 explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. 			
Living Things and their Habitats	Pupils should be taught to: • explore and compare the differences between things that are living, dead, and things that have never been alive; • identify that most living things		Pupils should be taught to: • recognise that living things can be grouped in a variety of ways; • explore and use classification keys to help group, identify and name a variety of living	Pupils should be taught to: • describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird; • describe the life process of reproduction in some plants	Pupils should be taught to: • describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including
	live in habitats to which they are		things in their local and	and animals.	including micro-

inheritance			Pupils should be taught to:
Evolution and	of food.		
	and name different sources		
	identify		
	chain, and		
	simple food		
	the idea of a		
	animals, using		
	plants and other		
	animals obtain their food from		
	• describe how		
	microhabitats;		
	including		
	habitats,		
	animals in their		
	plants and		
	name a variety of		
	 identify and 		
	on each other.		
	how they depend	living things.	
	and plants, and	dangers to	characteristics.
	kinds of animals	sometimes pose	specific
	the basic needs of different	that this can	animals based on
	for	can change and	plants and
	habitats provide	environments	classifying
	different	 recognise that 	• give reasons for
	describe how	environment;	and animals;
	suited and	wider	organisms, plants

	 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.
Seasonal changes	Pupils should be taught to: • observe changes across the 4 seasons; • observe and describe weather associated with the seasons and how day		
Forces	length varies.	Forces and Magnets Pupils should be taught to: • compare how things move on different surfaces; • notice that some forces need contact between 2 objects, but magnetic forces can act at a distance; • observe how magnets attract or repel each other and attract	Forces Pupils should be taught to: • explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object; • identify the effects of air resistance, water resistance and friction,

	arma materiala	
	some materials	that act between
	and not others;	moving surfaces;
	 compare and 	 recognise that
	group together	some
	a variety of	mechanisms
	everyday	including levers,
	materials	pulleys and
	on the basis of	gears allow a
	whether they	smaller force to
	are attracted to	have a
	a magnet,	greater effect.
	and identify	
	some	
	magnetic	
	materials;	
	• describe	
	magnets as having	
	2 poles;	
	 predict whether 	
	2 magnets will	
	attract or repel	
	each other,	
	depending on	
	which poles	
	are facing.	
Light	Pupils should be	Pupils should be
	taught to:	taught to:
	 recognise that 	 recognise that
	they need light	light appears to
	in order to see	travel in
	things and that	straight lines;
	dark is the	• use the idea
	absence of light;	that light travels

	is r fr • re ligh su dar tha th to th • re sha fo the lig blo of • fi the si	otice that light reflected rom surfaces; ecognise that ht from the un can be ngerous and at here are ways protect heir eyes; ecognise that adows are ormed when e light from a ght source is ocked by an paque object; ind patterns in e way that the ize of shadows ange.		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 our eyes or 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.
Sound			Pupils should be taught to: • identify how sounds are made, associating some of them	

Earth and Space Earth and Space Earth and Space Pupils should be taught to: odscribe the movement of the Earth and other					
Image: second space - recognise that vibrations from sounds travel through a medium to the ear: find patterns between the pitch of a sound and features of the object that produced it; find patterns between the sound and the strength of the vibrations that produced it; recognise that sound spece Earth and Space					
Earth and Space Vibrations from sounds travel Vibrations from sounds travel through a medium to the ear; • find patterns between the pitch of a sound and features of the object that produced it; • find patterns between the volume of a sound and the strength of the vibrations that produced it; • find patterns between the object that produced it; • find patterns between the volume of a sound and the strength of the vibrations that produced it; • find patterns between the volume of a sound sum the strength of the vibrations that produced it; • recognise that sound sget faither as the distance from the sound source increases. Earth and Space Pupils should be taught to: • describe the movement of the			-		
Earth and Space Sounds travel through a medium to the ear; • find patterns between the pitch of a sound and features of the object that produced it; • find patterns between the volume of a sound and the strength of the volume of a sound and the strength of the volume of a sound and the strength of the volume of a sound and the strength of the volume of the volume of the sound source increases. Earth and Space Pupils should be to character the movement of the					
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Earth and Space medium to the ear;			sounds travel		
Earth and Space ear; find patterns between the pitch of a sound and features of the object that produced it; find patterns between the volume of a sound and the strength of the vibrations that produced it; recognise that sounds get fainter as the distance from the sound source increases. Earth and Space Pupils should be taught to: · describe the movement of the			through a		
Earth and Space - find patterns between the pitch of a sound and features of the object that produced it; · find patterns between the volume of a sound and the strength of the vibrations that groduced it; · recognise that sounds get fainter as the distance from the sound source increases. Earth and Space Pupils should be taught to: · describe the movement of the			medium to the		
Earth and Space Earth and Space Earth and Space Pupils should be together the movement of the m			ear;		
Earth and Space pitch of a sound and features of the object that produced it; • find patterns between the volume of a sound and the strength of the vibrations that produced it; • recognise that sound and the strength of the vibrations that produced it; • recognise that sound sget fainter as the distance from the sound source increases. Pupils should be taught to: • describe the movement of the • describe the movement of the			 find patterns 		
Earth and Space of a sound and features of the object that produced it; • find patterns between the volume of a sound and the strength of the vibrations that produced it; • recognise that sounds get fainter as the distance from the sound source increases. • Pupils should be taught to: • describe the movement of the			between the		
Earth and Space Farth and Space Farth and Space Farth and Space			pitch		
Earth and Space Pupils should be taught to: • describe the movement of the			of a sound and		
Earth and Space Pupils should be taught to: - describe the movement of the			features of the		
Earth and Space Pupils should be taught to: Earth and Space Pupils should be taught to:			object that		
Earth and Space Pupils should be taught to: • describe the movement of the					
Earth and Space Volume of a sound and the strength of the vibrations that produced it; • recognise that sounds get fainter as the distance from the sound source increases. Earth and Space Pupils should be taught to: • describe the movement of the			 find patterns 		
Earth and Space Sound and the strength of the vibrations that produced it; • recognise that sounds get fainter as the distance from the sound source increases. Earth and Space Pupils should be taught to: • describe the movement of the					
Earth and Space Strength of the vibrations that produced it; • recognise that sounds get fainter as the distance from the sound source increases. Earth and Space Pupils should be taught to: • describe the movement of the			volume of a		
Earth and Space Vibrations that produced it; • recognise that sounds get fainter as the distance from the sound source increases. Earth and Space Pupils should be taught to: • describe the movement of the			sound and the		
Earth and Space Pupils should be taught to: · cescribe the movement of the					
Earth and Space Pupils should be taught to: · recognise that sounds get fainter as the distance from the sound source increases. Pupils should be taught to: · describe the movement of the			vibrations that		
Earth and Space Sound's get fainter as the distance from the sound source increases. Pupils should be taught to: · describe the movement of the			produced it;		
Earth and Space Fainter as the distance from the sound source increases. Pupils should be taught to: • describe the movement of the			 recognise that 		
Earth and Space Image: Constraint of the sound source increases. Pupils should be taught to: • describe the movement of the			sounds get		
Sound source increases. Sound source increases. Earth and Space Pupils should be taught to: · describe the movement of the · describe the movement of the					
Earth and Space Pupils should be taught to: · describe the movement of the			distance from the		
Earth and Space Pupils should be taught to: • describe the movement of the			sound source		
taught to: • describe the movement of the			increases.		
taught to: • describe the movement of the	Earth and Space			Pupils should be	
• describe the movement of the					
movement of the					
				Earth and other	

			 planets relative to the sun in the solar system; describe the movement of the moon relative to the Earth; describe the sun, Earth and moon as approximately spherical bodies; use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. 	
Electricity		Pupils should be taught to: • identify common appliances that run on electricity; • construct a simple series electrical circuit, identifying and naming its		Pupils should be taught to: • associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit;

basic parts,	 compare and
including cells,	give reasons for
wires, bulbs,	variations in how
switches and	components
buzzers;	function,
 identify 	including the
whether or not a	brightness of
lamp	bulbs, the
will light in a	loudness of
simple series	buzzers and the
circuit, based on	on/off position
whether or	of switches;
not the lamp is	 use recognised
part of a	symbols when
complete loop	representing a
with a battery;	simple circuit
 recognise that a 	in a diagram.
switch opens	
and closes a	
circuit and	
associate this	
with whether or	
not a lamp lights	
in a simple	
series circuit;	
• recognise some	
common	
conductors and	
insulators,	
and associate	
metals with	
being good	
conductors.	

Materials	Everyday Materials Pupils should be taught to: • distinguish between an object and the material from which it is made; • identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock; • describe the simple physical properties of a variety of everyday materials; • compare and	Uses of Everyday Materials Pupils should be taught to: • identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses; • find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting	Rocks Pupils should be taught to: • compare and group together different kinds of rocks on the basis of their appearance and simple physical properties; • describe in simple terms how fossils are formed when things that have lived are trapped within rock; • recognise that soils are made from rocks and organic matter.	States of Matter Pupils should be taught to: • compare and group materials together, according to whether they are solids, liquids or gases; • observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C); • identify the part played by	Properties and Changes of Materials Pupils should be taught to: • compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets; • know that some materials will dissolve in liquid to form a	
	simple physical properties of a variety of everyday materials;	objects made from some materials can be changed by squashing,	 recognise that soils are made from rocks and 	which this happens in degrees Celsius (°C); • identify the	response to magnets; • know that some materials will dissolve in liquid	

		:	deside have
		with	decide how
		temperature.	mixtures might
			be separated,
			including
			through filtering,
			sieving and
			evaporating;
			• give reasons,
			based on
			evidence from
			comparative and
			fair tests, for
			the particular
			uses
			of everyday
			materials,
			including
			metals, wood
			and plastic;
			• demonstrate
			that dissolving,
			mixing and
			changes of state
			are reversible
			changes;
			• explain that
			some changes
			result in the
			formation of new
			materials, and
			that this kind of
			change is not
			usually reversible,

					including changes associated with burning and the action of acid on bicarbonate of soda.	
Scientists and inventors	Pupils should be taught to: • identify and name a variety of common wild and garden plants, including deciduous and evergreen trees; • describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets); • identify, name, draw and label the basic parts of the human body and say	Pupils should be taught to: • describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food; • find out and describe how plants need water, light and a suitable temperature to grow and stay healthy; • describe the importance for	Pupils should be taught to: • explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant; • identify that humans and some other animals have skeletons and muscles for support, protection and movement; • compare and group together different kinds of rocks on the	Pupils should be taught to: • recognise that environments can change and that this can sometimes pose dangers to living things; • identify the different types of teeth in humans and their simple functions; • compare and group materials together, according to whether they are solids, liquids or gases; • observe that some materials change state	Pupils should be taught to: • describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird; • compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets;	Pupils should be taught to: • give reasons for classifying plants and animals based on specific characteristics; • identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood; • recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function;

 which part of the body is associated with each sense; describe the simple physical properties of a variety of everyday materials; compare and group together a variety of everyday materials on the basis of their simple physical properties; observe and describe weather associated with the seasons and how day length varies. 	humans of exercise, eating the right amounts of different types of food, and hygiene; • identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses; • find out about people who have developed new materials (non-statutory).	basis of their appearance and simple physical properties; • describe in simple terms how fossils are formed when things that have lived are trapped within rock; • notice that light is reflected from surfaces; • observe how magnets attract or repel each other and attract some materials and not others.	 when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C); recognise that vibrations from sounds travel through a medium to the ear; identify common appliances that run on electricity; construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers; recognise that a 	 use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating; describe the movement of the Earth, and other planets, relative to the Sun in the solar system; find out about the work of naturalists and animal behaviourists (non-statutory); describe how scientific ideas have changed over time (non-statutory). 	 recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago; use recognised symbols when representing a simple circuit in a diagram.
			 recognise that a switch opens and closes a 		

		circuit and	
		associate this	
		with whether or	
		not a lamp lights	
		in a simple	
		series circuit.	