End of FS	Area of	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Yea
(Reception)	attainment					
<u>Understanding</u> the World	<u>Working</u> Scientifically	Ask simple questions and recognise t ways.	hat they can be answered in different	Ask relevant questions and use different types of scientific enquiries to answer them		Plan different ognising and o
The Morid	<u> </u>	Observe closely, using simple equipment.		Set up simple practical enquiries, comparative and fair tests.		Take measure
<u>The World</u>		Parform simple tests		Make systematic and careful observations and where appropriate take		accuracy and
Children know about similarities		Identify and classify.		accurate measurements using standard units, using a range of equip-		Record data a
and differences in		Use their observations and ideas to s	uggest answers to questions			
relation to places, objects, materials		Gather and record data to help in an	swering questions	Gather, record, classify and present data in a variety of ways to help in answering questions.		Use test result tests
and living things. They talk about the				Record findings using simple scientific grams, keys, bar charts, and tables.	c language, drawings, labelled dia-	Report and pr
features of their				Depart on findings from anguirios in	oluding and and unittan aurolana	written forms
own immediate en- vironment and how				tions, displays or presentations of res	sults and conclusions.	Identify scien
environments might				Use results to draw simple conclusior	ns, make predictions for new val-	arguments.
other. They make				ues, suggest improvements and raise	further questions.	
observations of ani-				Identify differences, similarities or changes related to simple scientific		
mals and plants and				ideas and processes.		
explain why some				Use straightforward scientific evidence	ce to answer questions or to sup-	
things occur, and				port their findings.		
talk about changes.						
	Biology - Plants	Identify and name a variety of	Observe and describe how seeds	Identify and describe the functions		
Mathematics		common wild and garden plants,	and bulbs grow into mature plants	of different parts of flowering		
		including deciduous and evergreen	Find out and describe how plants	plants: roots, stem/trunk, leaves		
<u>Shape, Space and</u>		trees	need water, light and a suitable	and flowers		
<u>Measures</u>		Identify and describe the basic	temperature to grow and stay	Explore the requirements of plants		
Children use every-		structure of a variety of common	healthy	for life and growth (air, light, water,		
day language to talk		flowering plants, including trees		nutrients from soil, and room to		
about size, weight,				grow) and how they vary from		
capacity, position,				plant to plant		
distance, time and				Investigate the way in which water		
money to compare				is transported within plants		
quantities and ob-				Explore the part that flowers play in		
jects and to solve				the life cycle of flowering plants,		
problems. They rec-				including pollination, seed for-		
ognise, create and				mation and seed dispersal		
aescribe patterns.						
actoristics of every						
developments of every-						
shapes and use						
mathematical lan-						
augae to describe						
them.						

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t types of scientific enquiries to answer questions, including reccontrolling variables where necessary.

ements, using a range of scientific equipment, with increasing precision, taking repeat readings when appropriate.

and results of increasing complexity using scientific diagrams assification keys, tables, scatter graphs, bar and line graphs

Its to make predictions to set up further comparative and fair

resent findings from enquiries, including conclusions, causal and explanations of and a degree of trust in results, in oral and s such as displays and other presentations.

tific evidence that has been used to support or refute ideas or



End of FS	Area of	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Year 5	End of Year 6
(Reception)	attainment						
Physical Development Health and Self- Care Children know the importance for good health and physical exercise, and a healthy diet, and talk about ways to keep healthy and safe. They manage	<u>Biology -</u> <u>Animals</u> <u>Including</u> <u>Humans</u>	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 carni- vores, herbivores and omnivores Describe and compare the struc- ture of a variety of common ani- mals (fish, amphibians, reptiles, birds and mammals including pets) Identify, name, draw and label the	Notice that animals, including hu- mans, 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 hu- mans of exercise, eating the right amounts of different types of food, and hygiene	Identify that animals, including hu- mans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Identify that humans and some other animals have skeletons and muscles for support, protection and movement	Describe the simple functions of the basic parts of the digestive system in humans Identify the different types of teeth in humans and their simple functions Construct and interpret a variety of food chains, identifying pro- ducers, predators and prey	Describe the changes as humans develop to old age	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, exer- cise, drugs and lifestyle on the way their bodies function Describe the ways in which nutrients and water are transported within animals, including humans
their own basic hy-		basic parts of the human body and					
giene and personal		say which part of the body is asso-					
needs successfully,		ciated with each sense					
including dressing and aoing to the	<u>Biology -</u>						Recognise that living things have
toilet independently.	Evolution and						changed over time and that fossils
	Inheritance						things that inhabited the Earth mil- lions of years ago.
Personal, Social							Recognise that living things produce
and Emotional							offspring of the same kind, but nor-
Self-confidence							mally offspring vary and are not iden- tical to their parents.
and self-							Identify how animals and plants are
<u>awareness</u>							adapted to suit their environment in
Children are confi-							different ways and that adaptation
dent to try new ac-							may lead to evolution.
tivities, and say why they like some activ-	<u>Biology -</u>		Explore and compare the differ-		Describe the simple functions of	Describe the differences in the life	Describe how living things are classi-
ities more than oth-	Living Things		ing, dead, and things that have nev-		system in humans.	an insect and a bird.	common observable characteristics
ers. They are confi-	and Their		er been alive.				and based on similarities and differ-
dent to speak in a	<u>Habitats</u>		Identify that most living things live		Identify the different types of	Describe the life process of repro-	ences, including micro-organisms,
familiar group, will			in habitats to which they are suited		functions.	duction in some plants and animals.	plants and animals.
talk about their ide-			and describe how different habitats		Construct and interment a verifiet		Give reasons for classifying plants
the resources they			provide for the basic needs of differ-		of food chains identifying pro-		and animals based on specific char-
need for their cho-			ent kinds of animals and plants, and		ducers, predators and prev.		acteristics.
sen activities. They			how they depend on each other.		,,		
say when they do or							
don't need help.							



End of FS (Reception)	Area of attainment	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Year 5	End of Year 6
Understandingthe WorldPeople andCommunitiesChildren talk aboutpast and presentevents in their ownlives and in the livesof family members.They know that oth-	<u>Biology -</u> <u>Living Things</u> <u>and Their</u> <u>Habitats</u>		Identify and name a variety of plants and animals in their habitats, including microhabitats. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name differ- ent sources of food.				
They know that oth- er children don't always enjoy the same things, and are sensitive to this. They know about similarities and differences between themselves and oth- ers, and among families, communi- ties and traditions.	<u>Chemistry -</u> <u>Materials</u>	Distinguish between an object and the material from which it is made. Identify and name a variety of eve- ryday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical prop- erties of a variety of everyday ma- terials. Compare and group together a variety of everyday materials on the basis of their simple physical properties.	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, bend- ing, twisting and stretching.				
Imaginative Children use what they have learnt about media and materials in original ways, thinking about uses and pur- poses. They repre- sent their own ide- as, thoughts and feelings through design and technol- ogy, art, music, dance, role-play and stories.	<u>Chemistry -</u> <u>Rocks</u>			Compare and group together differ- ent kinds of rocks on the basis of their appearance and simple physi- cal properties. Describe in simple terms how fos- sils are formed when things that have lived are trapped within rock. Recognise that soils are made from rocks and organic matter.			



End of FS	Area of	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Ye
(Reception)	attainment					
	<u>Chemistry -</u> <u>States of</u> <u>Matter</u>				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 evap- oration and condensation in the water cycle and associate the rate of evaporation with temper- ature.	
	<u>Chemistry -</u> <u>Properties and</u> <u>Changes of</u> <u>Materials</u>					Compare and day materials properties, ir solubility, tra (electrical an sponse to ma
						Know that so solve in liquid describe how from a soluti
						Use knowled gases to deci be separated tering, sievin
						Give reasons from compar the particula terials, incluc plastic.
						Demonstrate and changes changes.
						Explain that s the formation that this kind reversible, in ated with bu acid on bicar



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l group together every- s on the basis of their icluding their hardness, nsparency, conductivity d thermal), and re- gnets.	
me materials will dis- I to form a solution, and to recover a substance on.	
ge of solids, liquids and de how mixtures might , including through fil- g and evaporating.	
based on evidence ative and fair tests, for uses of everyday ma- ling metals, wood and	
that dissolving, mixing of state are reversible	
some changes result in n of new materials, and of change is not usually cluding changes associ- rning and the action of bonate of soda.	

End of FS (Reception)	Area of attainment	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Yea
	Physics - Earth in Space			Compare how things move on		Describe the r and other pla in the solar sy Describe the r relative to the Describe the s approximately Use the idea of to explain day parent mover the sky.
	Forces and Magnets			different surfaces. Notice that some forces need con- tact between 2 objects, but mag- netic forces can act at a distance. Observe how magnets attract or repel each other and attract some materials and not others. Compare and group together a vari- ety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials. Describe magnets as having 2 poles. Predict whether 2 magnets will attract or repel each other, de- pending on which poles are facing.		towards the E force of gravit Earth and the Identify the e water resistar act between r Recognise tha including leve allow a smalle er effect.

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movement of the Earth nets relative to the sun /stem.	
movement of the moon e Earth.	
sun, Earth and moon as y spherical bodies.	
of the Earth's rotation y and night and the ap- ment of the sun across	
insupported objects fall Earth because of the ty acting between the e falling object.	
ffects of air resistance, nce and friction, that moving surfaces.	
at some mechanisms ers, pulleys and gears er force to have a great-	

End of FS (Reception)	Area of attainment	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Ye
	<u>Physics -</u> <u>Sound</u>				Identify how sounds are made, associating some of them with something vibrating.	
					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 vol- ume 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.	
	<u>Physics -</u> Electricity				Identify common appliances that run on electricity.	
					Construct a simple series electri- cal circuit, identifying and nam- ing its basic parts, including cells, wires, bulbs, switches and buzz- ers.	
					Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.	
					Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.	
					Recognise some common con- ductors and insulators, and asso- ciate metals with being good conductors.	

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	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 varia- tions in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols when repre- senting a simple circuit in a diagram.