Subject	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants	• identify and name a	• observe and	• identify and			
Key learning	variety of common	describe how seeds	describe the functions			
objectives	wild and garden	and bulbs grow into	of different parts of			
Assessment Qs	plants, including	mature plants	flowering plants:			
7 los cosmente do	deciduous and	 find out and 	roots, stem/trunk,			
	evergreen trees •	describe how plants	leaves and flowers •			
	identify and describe	need water, light and	explore the			
	the basic structure of	a suitable	requirements of			
	a variety of common	temperature to grow	plants for life and			
	flowering plants,	and stay healthy	growth (air, light,			
	including trees		water, nutrients from			
		This plant is not	soil, and room to			
	Can you identify an	growing well – can	grow) and how they			
	evergreen tree?	you think of reasons	vary from plant to			
		why?	plant			
	Can you name parts		 investigate the way 			
	of a plant?		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			
			A flower is growing in			
			a field but no one			
			planted it – how did it			
			get there?			

Living things and	• explore and	• recognise that living	• describe the	describe how living
their habitats	compare the	things can be grouped	differences in the life	things are classified
Key learning	difference between	in a variety of ways	cycles of a mammal,	into broad groups
objectives	things that are living,	 explore and use 	an amphibian, an	according to common
Assessment	dead, and things that	classification keys to	insect and a bird	observable
7.65 CSSITTETIC	have never been alive	help group, identify	 describe the life 	characteristics and
	 identify that most 	and name a variety of	process of	based on similarities
	living things live in	living things in their	reproduction in some	and differences,
	habitats to which	local and wider	plants and animals	including micro-
	they are suited and	environment		organisms, plants and
	describe how	recognise that	How do the life cycles	animals
	different habitats	environments can	of mammals and	give reasons for
	provide the basic	change and that this	insects differ?	classifying plants and
	needs of different	can sometimes pose		animals based on
	kinds of animals and	dangers to living		specific
	plants, and how they	things		characteristics
	depend on each other			
	 identify and name a 	Case study		Can animals be a
	variety of plants and	investigation:		mammal but have
	animals in their	orangutan		characteristics from
	habitats, including			other groups such as
	micro-habitats	How can you classify		fish?
	• describe how	this animal?		
	animals obtain their			
	food from plants and	They are losing their		
	other animals, using	habitats – why?		
	the idea of a simple			
	food chain, and			
	identify and name			
	different sources of			
	food			
	A new road is being			
	built through a			
	woodland and a field.			
	What animals may			
	this affect and why?			

Animals including	Pupils should be	Pupils should be	Pupils should be	Pupils should be	Pupils should be	Pupils should be
_	taught to:	taught to:	taught to:	taught to:	taught to:	
Animals including humans Key learning objectives Assessment	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, 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 How do different varieties of animals	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 different types of food, and hygiene What advice would you give your friends to stay healthy?	Pupils should be taught to: • identify that animals, including humans, 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 Can you write a healthy day's menu and explain why it is healthy?	Pupils should be taught to: • 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 producers, predators and prey Can you name and describe the functions and the main parts of the digestive system? Children to label and annotate a diagram	Pupils should be taught to: • describe the changes as humans develop to old age What changes in humans as they get older?	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 transported within animals, including humans Can you describe the effects that exercise on your body? (Including the names of the circulatory system in your description)
	How do different					

Light	Pupils should be	Pupils should be
Key learning	taught to:	taught to:
objectives	• recognise that they	• recognise that light
Assessment	need light in order to	appears to travel in
Assessment	see things and that	straight lines
	the dark is the	• use the idea that
	absence of light ●	light travels in
	notice that light is	straight lines to
	reflected from	explain that objects
	surfaces	are seen because
	• recognise that light	they give out or
	from the sun can be	reflect light into the
	dangerous and that	eye
	there are ways to	• explain that we see
	protect their eyes	things because light
	• recognise that	travels from light
	shadows are formed	sources to our eyes or
	when the light from a	from light sources to
	light source is blocked	objects and then to
	by a solid object	our eyes
	• find patterns in the	• use the idea that
	way that the size of	light travels in
	shadows changes	straight lines to
		explain why shadows
	When the sun is	have the same shape
	shining and we are	as the objects that
	blocking the sun. Why	cast them
	do the size of our	
	shadows change	There is a lamp, a boy
	during the day?	and a flower (give chn
		diagram).
	Please explain using	
	words and a diagram.	Explain in your own
		words (and use the
		diagram) how the boy
		can see the flower.

Sound Key learning objectives Assessment		Pupils should be taught to: • 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 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	

			Describe what happens to sound when it is produced from a source. Explain why it is fainter the further you are away from the source. Use a diagram to help with your explanation.	
Seasonal Change Key learning objectives Assessment	Pupils should be taught to: • observe changes across the four seasons • observe and describe weather associated with the seasons and how day length varies What will you find under a stone at different times of the year? How are the seasons different?			

	Why do the days get longer in summer?				
	longer in summer :				
	Francisco Martariala	Hanna of Francisco	Dl		
Materials	Everyday Materials	Uses of Everyday Materials	Rocks	 compare and group everyday materials on 	
Key learning	 distinguish between an object and the 	• identify and	 compare and group together different 	the basis of their	
objectives	material from which it	compare the	kinds of rocks on the	properties, including	
Assessment	is made	suitability of a variety	basis of their	hardness, solubility,	
	• identify and name a	of everyday materials,	appearance and	transparency,	
	variety of everyday	including wood,	simple physical	conductivity	
	materials, including	metal, plastic, glass,	properties	(electrical and	
	wood, plastic, glass,	brick, rock, paper and	• describe in simple	thermal), and	
	metal, water, and	cardboard for	terms how fossils are	response to magnets	
	rock	particular uses	formed when things	know that some	
	 describe the simple 	 find out how the 	that have lived are	materials will dissolve	
	physical properties of	shapes of solid	trapped within rock	in liquid to form a	
	a variety of everyday	objects made from	 recognise that soils 	solution, and describe	
	materials	some materials can	are made from rocks	how to recover a	
	• compare and group	be changed by	and organic matter	substance from a	

together a variety of everyday materials on the basis of their simple physical properties What are the best words to describe the properties of: ? Can you group objects by properties?	squashing, bending, twisting and stretching 3 little pigs investigation – which is the best material for the job and why?	Can you describe in your own words (in a paragraph) how fossils are formed?	• use knowledge of solids, liquids and gases to decide how mixtures might be separated, (filtering, sieving and evaporating) • give reasons, based on evidence, from comparative and fair tests, for particular uses of everyday materials, including metals, wood and plastic
Can you group objects by			comparative and fair tests, for particular uses of everyday materials, including metals, wood and

		Do you have any examples?
Forces and magnets	• compare how things move on different	explain that unsupported objects
Key learning objectives Assessment	surfaces • notice that some forces need contact	fall towards the Earth because of the force of gravity acting
	between two objects, but magnetic forces can act at a distance • observe how	between the Earth and the falling object • identify the effects of air resistance,
	magnets attract or repel each other and attract some	water resistance and friction, that act between moving
	materials and not others • compare and group	surfaces • recognise that some mechanisms,
	together a variety of everyday materials on the basis on whether	including levers, pulleys and gears, allow a smaller force
	they are attracted to a magnet, and identify some	to have a greater effect
	magnetic materials • describe magnets as having two poles • predict whether two	Investigation: Which surface provides the best friction for a shoe?
	magnets will attract or repel each other,	Which liquid provides

States of Matter Key learning objectives Assessment		depending on which poles are facing Show children objects they have not tested before. Can they predict whether they will be magnetic or not?	• 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 evaporation and condensation in the water cycle and associate the rate of evaporation with temperature After it rains will puddles disappear?	the most friction?	

Earth and Space • describe the	
Key learning movement of the	
objectives Earth, and other	
Assessment planets, relative to	
ASSESSITE III the Sun	
• 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 nigh	t
and the apparent	
movement of the su	ո
across the sky	
Is this true?	
The earth rotates	
around the sun. The	
earth also rotates	
around the moon.	
Explain your answer.	

	T	T	I	
Electricity			identify common	associate the
Key learning			electrical appliances	brightness of a lamp
objectives			 construct a simple 	or the volume of a
Assessment			series electrical	buzzer with the
			circuit, identifying	number and voltage
			and naming basic	of cells used in the
			parts, including cells,	circuit
			wires, bulbs, switches	 compare and give
			and buzzers	reasons for variations
			 identify whether or 	in how components
			not a lamp will light in	function, including
			a simple series circuit,	the brightness of
			based on whether or	bulbs, the loudness of
			not the lamp is part	buzzers and the
			of a complete loop	on/off position of
			with a battery	switches
			recognise that a	use recognised
			switch opens and	symbols when
			closes a circuit and	representing a simple
			associate this with	circuit in a diagram
			whether or not a	
			lamp lights in a simple	What would you
			series circuit •	expect to happen to
			recognise some	the brightness of a
			common conductors	bulb if you added a

	and insulators, and associate metals with being good conductors Look at these different materials. Can you sort them into insulators or conductors?	motor to the circuit?
Evolution and inheritance Key learning objectives Assessment		• 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 Show pictures of 2 very different dogs. (eg corgi and greyhound)

			What would we expect their offspring to look like and why?
Working Scientifically Key learning objectives Assessment	 ask simple questions and recognise that they can be answered in different ways observe closely, using simple equipment perform simple tests gather and record data to help in answering questions identify and classify use their observations and ideas to suggest answers to questions Evidence in books and observations (ongoing) 	 ask relevant questions and use different types of scientific enquiries to answer them set up simple practical enquiries, comparative and fair tests make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables gather, record, classify and present data in a variety of ways to help in answering questions identify differences, similarities or changes related to simple scientific ideas and processes report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions 	 plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs identify scientific evidence that has been used to support or refute ideas or arguments report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations use test results to make predictions to set up further comparative and fair tests

 use straightforward scientific evidence to answer questions or to support their findings use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions 	Evidence in books and observations (on-going)
Evidence in books and observations (on-going)	