



Content	Phase 1	Phase 2 Phase 3 Phase 4		Phase 4			
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Seasonal changes	Talk about the features of their own immediate environment and how environments might vary from one another Talk about changes	Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies					
Animals	Make observations of animals, explain why some things occur and talk about changes	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)	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, air)	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	Construct and interpret a variety of food chains, identifying producers, predators and prey		Describe the ways in which nutrients and water are transported within animals (including humans)
Humans		Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense	Notice that humans have offspring which grow into adults *Find out about and describe the basic needs for survival (food, water, air) *Describe the importance for humans of exercise, eating the right amounts of	Identify that 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 have skeletons and muscles for support,	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	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, exercise, drugs and lifestyle on the way their bodies function. Describe the ways in which nutrients and water are





			different types of food,	protection and		transported within humans
			and hygiene	movement		(and other animals)
Plants	Make	Identify and name a	Observe and describe	Identify and describe the		
	observations of	variety of common wild	how seeds and bulbs	functions of different		
	plants, explain	and garden plants,	grow into mature plants	parts of flowering		
	why some	including deciduous and	Find out and describe	plants: roots,		
	things occur	evergreen trees Identify	how plants need water,	stem/trunk, leaves and		
	and talk about	and describe the basic	light and a suitable	flowers Explore the		
	changes	structure of a variety of	temperature to grow	requirements of plants		
		common flowering	and stay healthy	for life and growth (air,		
		plants, including trees		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		
1						
I						
1						
	1					





	T., , T	 · · · · · · · · · · · · · · · · · · ·	T	l		T =
Living Things	Know about	Explore and compare		Recognise that living	Describe the differences	Describe how living things are
and their	similarities and	the differences between		things can be	in the life cycles of a	classified into broad groups
Habitats/	differences in	things that are living,		grouped in a variety	mammal, an amphibian,	according to common
1	relation to	dead and things that have never been alive		of ways	an insect and a bird Describe the life	observable characteristics and based on similarities and
Evolution and	living things Talk about the	Identify that most living		Explore and use classification keys to	processes of	differences, including micro-
Inheritance	features of	things live in habitats to		help group, identify	reproduction in some	organisms, plants and animals
(Y6 only)	their own	which they are suited		and name a variety	plants and animals	Give reasons for classifying
(10 only)	immediate	and describe how		of living things in	piants and animals	plants and animals based on
	environment	different habitats		their local and wider		specific characteristics
	and how	provide for the basic		environment		Recognise that living things
	environments	needs of different kinds		Recognise that		have changed over time and
	might vary	of animals and plants,		environments can		that fossils provide
	from one	and how they depend on		change and that this		information about living
	another	each other		can sometimes pose		things that inhabited the
		Identify and name a		dangers to living		Earth millions of years ago
		variety of plants and		things		Recognise that living things
		animals in their habitats				produce offspring, but
		- including				normally offspring vary and
		microhabitats Describe how animals				are not identical to their
		obtain their food from				parents Identify how animals and plants are adapted to suit
		plants and other animals				their environment and that
		using the idea of a				adaptations lead to evolution
		simple food chain –				
		identify and name				
		different sources of food				
	11		1			l .





Materials	Know about	Distinguish between an	Identify and compare	Compare and group	Compare and group	Compare and group
Including:	similarities and	object and the material	the suitability of a	together different kinds	materials together	everyday materials
_	differences in	from which it is made	variety of everyday	of rocks on the basis of	according to	based on their
Everyday uses	relation to	Identify and name a	materials, including	their appearance and	whether they are	properties, including
of materials,	materials and	variety of everyday	wood, metal, plastic,	simple physical	solids, liquids or	hardness, solubility,
Rocks,	objects	materials, including	glass, brick, rock, paper	properties	gases	transparency,
<u> </u>		wood, plastic, glass,	and cardboard for particular uses	Describe in simple terms how fossils are formed	Observe that some	conductivity (electrical
Properties and		metal, water and rock Describe the simple	Find out how the shapes	when things that have	materials change state when they are	and thermal) and magnetism
changes,		physical properties of a	of solid objects made	lived are trapped within	heated or cooled:	Know some materials
States of		variety of everyday	from some materials can	rock Recognise that soils	measure or research	dissolve in liquid to form
matter		materials	be changed by	are made from rocks	the temperature at	a solution and describe
matter		Compare and group	squashing, bending,	and organic matter	which this happens	how to recover a
		together a variety of	twisting and stretching		in degrees C (°C)	substance from solution
		everyday materials on			Identify the part	Use knowledge of solids,
		the basis of their simple			played by	liquids and gases to
		physical properties			evaporation and	decide how mixtures
					condensation in the	might be separated,
					water cycle and	including through
					associate the rate of	filtering, sieving and
					evaporation with temperature	evaporating Give reasons, based on
					temperature	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 these
						changes are not usually
						reversible eg: changes
						from burning or the
						action of acid on
						bicarbonate of soda





	1	,	December that the trade		December that Palating
Light			Recognise that light		Recognise that light appears
			is needed in order to		to travel in straight lines *Use
		'	see things and that		the idea that light travels in
			dark is the absence		straight lines to explain that
			of light		objects are seen because they
		'	Notice that light is		give out or reflect light into
		<u>'</u>	reflected from		the eye*Explain that we see
		<u>'</u>	surfaces		things because light travels
		<u>'</u>	Recognise that light		from light sources to our eyes
		<u>'</u>	from the sun can be		or from light sources to
		<u>'</u>	dangerous and that		objects and then to our eyes
		<u>'</u>	there are ways to		Use the idea that light travels
			protect their eyes		in straight lines to explain
Ì			Recognise that		why shadows have the same
			shadows are formed		shape as the objects that cast
			when the light from a		them
		'	light source is		
		'	blocked by an		
		'	opaque object		
		<u>'</u>	Find patterns in the		
		<u>'</u>	way that the size of		
		'	shadows change		
		<u>'</u>	5 - 1 - 1 - 1 - 5 -		
		'			
		<u>'</u>			
		<u>'</u>			
		'			
		'			
		<u>'</u>			
		'			
		<u>'</u>			
		<u>'</u>			
		<u>'</u>			





Forces and Compare how things Explain that	
move on unsupported	
magnets different surfaces objects fall towards the	
Notice that some forces Earth	
need because of the force of	
contact between two gravity	
objects, acting between the	
but magnetic forces can Earth and	
act at a the falling object	
distance Identify the effects of air	
Observe how magnets resistance, water	
attract resistance and	
or repel each other and friction, that act	
attract between	
some materials and not moving surfaces	
others Recognise that some	
Compare and group mechanisms including	
together a levers,	
variety of everyday pulleys and gears allow a	
materials on smaller	
the basis of whether force to have a greater	
they are effect	
attracted to a magnet	
and identify some magnetic	
materials	
Describe magnets as	
having	
two poles	
Predict whether two	
magnets	
will attract or repel each	
other	
depending on which	
poles are facing	
potes are teeming	





Sound			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	





Electricity		Identify common	*Associate the brightness of a
Licetificity		appliances	lamp or the volume of a
		that run on	buzzer
		electricity	with the number and voltage
		*Construct a simple	of
		series	cells used in the circuit
		electrical circuit	Compare and give reasons for
		identifying and	variations in how components
		naming its basic	function, including the
		parts including	brightness of bulbs, the
		cells, wires, bulbs,	loudness
		switches and	of buzzers and the on/off
		buzzers	position of switches
		*Identify whether or	Use recognised symbols when
		not a lamp	representing a simple circuit
		will light in a simple	in a diagram
		series	a alag. a
		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	
		conductors and	
		insulators, and	
		associate metals	
		with being good	
		conductors	
		conductors	





Progression in science

Earth and Space			Describe the	
Lartii ana opate			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	
			acioss the sky	

Vocabulary related to each topic can be found in teacher drive: Science folder – Year group vocab