

Science Curriculum Overview

	Autum	in Term		Spring	Terr	n	Summer Term			
Year 1	Obje distinguish betwe material from wh identify and name materials, includin metal, water, and describe the simp of a variety of ev compare and grou	e a variety of everyday ng wood, plastic, glass, rock ole physical properties eryday materials p together a variety rials on the basis of	•	<u>Animals</u> <u>Objectives</u> identify and name a variety of common animals that are carnivores, herbivores and omnivores identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)	<u>A</u>	nimals including <u>humans.</u> <u>Objectives</u> identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense	•	<u>Plants</u> <u>Objectives</u> 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	•	<u>Animals</u> <u>Objectives</u> identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)
	<			Season	al C	hange				\longrightarrow
Year 2	<u>Living Things &</u> <u>Their Habitats</u> <u>Objectives</u> • explore and compare the	<u>Animals Including</u> <u>Humans</u> <u>Objectives</u> • notice that animals, including humans,	of	<u>Use of Everyc</u> <u>Objectives</u> lentify and compare th f everyday materials, in astic, glass, brick, rocl	e sui nclud	tability of a variety ing wood, metal,	gı	<u>Pla</u> <u>Objec</u> oserve and describe h row into mature plants nd out and describe h	iow s s	seeds and bulbs
	differences	have offspring,	fo	or particular uses.			liq	ght and a suitable ter	nper	ature to grow and

	between things	which grow into	• find out how the shapes o		stay healthy	
	that are living,	adults. • find out about and	from some materials can b	- .	Marking Esignatifical	. form
	dead, and things that have never	• find out about and describe the basic	squashing, bending, twisting and stretching.		Working Scientificall	y locus
	been alive.	needs of animals,	Working Scientifically foc			
	 identify that most 	including humans,	Working Scientifically for			
	living things live in	for survival (water,				
	habitats to which	food and air)				
	they are suited	describe the				
	and describe how	importance for				
	different habitats	humans of exercise,				
	provide for the	eating the right				
	basic needs of	amounts of				
	different kinds of	different types of				
	animals and plants,	food, and hygiene.				
	and how they depend on each					
	other.					
	 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					
	different sources					
	of food.					
	Forest School					
	Animals including	Animals including	Rocks	<u>Forces</u>	<u>Plants</u>	<u>Light</u>
	<u>humans</u>	<u>humans</u>				
Year 3		.Can I identify that	. Can I compare and group	. Can I compare how	. Can I identify and	. Can I recognise that
	.Can I identify that	animal, including	together different kinds	things move on	describe the functions	they need light in order
	human and some	humans, need the	of rocks on the basis of	different surfaces?	of the flowering plant? . Can I explore the	to see things and that
	humans and some	right types and	their appearance and	. Can I notice that	. Our I explore the	dark is the absence of

other animals have skeletons and muscles for support and muscles for support, protection and movement?	amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat?	simple physical properties? . Can I describe in simple terms how fossils are formed when things that have lived are trapped within rock? . Can I recognise that soils are made from rocks and organic matter?	some forces need contact between two objects but magnetic forces can act a distance? Can I observe how magnets attract or repel each other and attract some materials and not others? Can I compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials? . Can I describe magnets as having two poles? Can I predict whether two magnets will attract	requirements of plants for life and growth? . Can I investigate the way in which water is transported within plants? Can I explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal?	light? Can I notice that light is reflected from surfaces? . Can I recognise that light from the sun can be dangerous and that there are ways to protect their eyes? . Can I recognise that shadows are formed when the light from a light source is blocked by a solid object? Can I find patterns in the way that the size of shadows change?
Year 4 Year 4 Sound <u>Objectives</u> I can identify how sounds are made, associating some of them with something vibrating.	Forest School Electricity Objectives I can identify common appliances that run on electricity. I can construct a	<u>Animals including humans</u> <u>Objectives</u> I can describe the simple functions of the basic parts of the digestive system in humans. I can identify the	whether two	grouped in a variety I can explore and use	at living things can be

	I can recognise that vibrations from sounds travel through a medium to the ear. I can find patterns between the pitch of a sound and features of the object that produced it. I can find patterns between the volume of a sound and the strength of the vibrations that produced it. I can recognise that sounds get fainter as the distance from the sound source increases.	simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. I can 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. I can recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. I can recognise some common conductors and insulators, and associate metals with being good conductors.	different types of teeth in humans and their simple functions. I can construct and interpret a variety of food chains, identifying producers, predators and prey.	to whether they are solids, liquids or gases. I can 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). I can identify the part played by evaporation and condensation in the water cycle. I can associate the rate of evaporation with temperature.	I can recognise that	nd wider environment. environments can change hetimes pose dangers to
		conductors.				
Year	5 Forces Objectives Can I explain that unsupported objects fall towards the Earth because of the force of gravity acting between the	<u>Materials</u> (<u>Properties</u>) <u>Objectives</u> Can I compare and group together everyday materials on the basis of their properties, including	<u>Animals including humans</u> <u>Objectives</u> Can I describe the changes as humans develop to old age?	<u>Earth & Space</u> <u>Objectives</u> Can I describe the movement of the Earth and other planets relative to the sun in the solar	<u>Materials</u> (Changes) Objectives Can I demonstrate that dissolving, mixing and changes of state are	Living Things & their <u>Habitats</u> <u>Objectives</u> Can I describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird?

	Earth and the falling object? Can I identify the effects of air resistance, water resistance and friction, that act between moving surfaces? Can I recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect?	their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets? Can I give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic? Can I know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution Can I use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating?		system? Can I describe the movement of the moon relative to the Earth? Can I describe the sun, Earth and moon as approximately spherical bodies? Can I use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky?	reversible changes? Can I 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?	Can I describe the life process of reproduction in some plants and animals?
Year 6	Light Objectives *Recognise that light appears to travel in straight lines. *Use the idea that light travels in straight lines to explain that objects are seen because they	Living Things & their Habitats (Classification) Objectives *Describe how living things are classified into broad groups according to common observable characteristics and	Electricity <u>Objectives</u> *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 variations in how	Evolution <u>Objectives</u> *Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth	Animals including humans Objectives *Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels	

give out or reflect light	based on similarities	components function,	millions of years ago.	and blood.	
into the eye.	and differences,	including the brightness of	*Recognise that living	*Recognise the impact	
*Explain that we see	including micro-	bulbs, the loudness of buzzers	things produce	of diet, exercise, drugs	
things because light	organisms, plants and	and the on/off position of	offspring of the same	and lifestyle on the way	
travels from light	animals.	switches.	kind, but normally	their bodies' function.	
sources to our eyes or	*Give reasons for	*Use recognised symbols	offspring vary and are	*Describe the ways in	
from light sources to	classifying plants and	when representing a simple	not identical to their	which nutrients and	
objects and then to our	animals based on	circuit in a diagram.	parents.	water are transported	
eyes.	specific characteristics.		*Identify how animals	within animals,	
*Use the idea that light			and plants are adapted	including humans.	
travels in straight lines			to suit their		
to explain why			environment in		
shadows have the			different ways and that		
same shape as the			adaptation may lead to		
objects that cast them.			evolution.		