		East Worlington Prin	nary School- Science Overview	
NC St	rand	Year 1 and Year 2	Year 3, Year 4 and Year 5	Year 6
	Asking questions	Ask simple questions and recognise that they can be answered in different ways	Ask relevant questions and use different types of scientific enquiries to answ Set up simple practical enquiries, comparative and fair test Plan different types of scientific enquiries to answer questions, including re variables where necessary	
	ding	Observe closely, using simple equipment Perform simple tests	Make systematic and careful observations and, where appropriate, take acc using standard units, using a range of equipment, including thermometers a	
Working scientifically	Measuring and recording	Gather and record data to help in answering questions	Record findings using simple scientific language, drawings, labelled diagram tables Gather, record, classify and present data in a variety of ways to help in answ Take measurements, using a range of scientific equipment, with increasing a precision, taking repeat readings when appropriate	vering question
			Record data and results of increasing complexity	
			using scientific diagrams and labels, classification keys, tables, scatter graph	ns, bar and line graphs

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		Identify and classify		Identify diffe	erences, similarities or changes related to sir	mple scientific ideas and processes			
			Use their observations and ideas to suggest answers to questions		Report on findings from enquiries, including oral and written explanations, displays or presentation of results and conclusions Use straightforward scientific evidence to answer questions or to support their findings Identify scientific evidence that has been used to support or refute ideas or arguments				
	ding								
	Concluding			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					
				presentation	-	a written forms such as displays and other			
	Evaluating			and raise fu	to draw simple conclusions, make prediction rther questions ults to make predictions to set up further co				
	<u> </u>	Plants	Animals including h	umans	Living things and their habitats	Materials			
Year 1, Y2	wild and garden p deciduous and eve Identify and descr structure of a varie flowering plants, i <u>Seasons</u>	ergreen trees ibe the basic ety of common	Identify and name a varie common animals includin amphibians, reptiles, bird mammals Identify and name a varie common animals that are herbivores and omnivore Describe and compare the of a variety of common ar amphibians, reptiles, bird	g fish, s and ty of carnivores, s e structure himals (fish,	Explore and compare the difference between things that are living, dead, and things that have never been alive Identify that most living things live in habitats to which they are suited and describe how different habitats provide the basic needs of different kinds of animals and plants, and how they depend on each	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 group together a variety of			

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	Observe and describe with the seasons and varies Observe and describe bulbs grow into matu Find out and describe water, light and a sui to grow and stay hea	how day length how seeds and ire plants how plants need table temperature	mammals, including Identify, name, draw basic parts of the hu say which part of th associated with each Notice that animals humans, have offsp into adults Find out about and needs of animals, in for survival (water, Describe the import of exercise, eating t of different types of	w and label the uman body and le body is sense , including ring which grow describe the basic ncluding humans, food and air) tance for humans he right amounts	other Identify and name a and animals in their h micro-habitats Describe how animal from plants and othe idea of a simple food and name different s	abitats, including s obtain their food r animals, using the chain, and identify	everyday materials b physical properties. Find out how the sha made from some ma changed by squashir and stretching. Identify and compar- of a variety of every including wood, met brick/rock, and pape	e and know the uses day materials, al, plastic, glass,
	<u>Plants</u>	Animals including	Living things and	<u>Materials</u>	Light and Sound	Forces and	<u>Electricity</u>	Earth and space
		humans	<u>their habitats</u>			magnets		
Year 3	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and 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			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	Recognise that they need light in order to see things and that the dark is the absence of light Notice that light is reflected from surfaces Recognise that light from the sun can be dangerous and that there are ways to protect	Compare how things move on different surfaces Notice that some forces need contact between two objects, but magnetic forces can act at a distance Observe how magnets attract or repel each other and attract		

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	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			from rocks and organic matter.	their eyes Recognise that shadows are formed when the light from a light source is blocked by a solid object Find patterns in the way that the size of shadows changes	some materials and not others Compare and group together a variety of everyday materials on the basis on whether they are 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		
Year 4	<u>Plants</u>	<u>Animals including</u> <u>humans</u>	<u>Living things and</u> <u>their habitats</u>	<u>Materials</u>	Light and Sound	Forces and magnets	<u>Electricity</u>	Earth and space
		Identify that animals, including humans, need the right types and amount of nutrition, and	Recognise that living things can be grouped in a variety of ways Explore and use	Compare and group materials together, according to whether they are solids, liquids or gases.	Identify how sounds are made, associating some of them with something vibrating		Identify common appliances that run on electricity Construct a simple series electrical circuit, identifying	Identify that animals, including humans, need the right types and amount of nutrition, and

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that they cannot make their own food; they get nutrition from what they eatIdentify that humans and some other animals have skeletons and muscles for support, protection and movementDescribe 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,	classification keys to help group, identify and name a variety of living things in their local and wider environment Recognise that environments can change and that this can sometimes pose dangers to living things	Observe that some materials change state when they are heated or cooled, and measure the temperature at which this happens in degrees Celsius (°C), building on their teaching in mathematics. Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	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	and naming its basic parts,including cells, wires, bulbs, switches and buzzersIdentify 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 batteryRecognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuitRecognise some common conductors and associate metals with being good conductors	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 varie of food chains

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		producers, predators and prey						producers, predators and prey
Year 5	<u>Plants</u>	Animals including humans Describe the changes as	Living things and their habitats Describe the differences in the	Materials Compare and group together everyday materials on the	Light and Sound	Explain that unsupported	<u>Electricity</u>	Describe the movement of
		humans develop to old age	life cycles of a mammal, an amphibian, an insect and a bird Describe the life process of reproduction in	materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and		objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object		the Earth, and other planets, relative to the Sun in the solar system
			some plants and animals	response to magnets Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution Use knowledge of		Identify the effects of air resistance, water resistance and friction, that act between moving surfaces		Describe the movement of the Moon relative to the Earth Describe the
				solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating Give reasons, based on evidence from		Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a		Sun, Earth and Moon as approximately spherical bodies Use the idea of
				comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic		greater effect		the Earth's rotation to explain day and night, and the apparent

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				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.				movement of the sun across the sky.
Year 6	<u>Plants</u>	Animals including humans	Living things and their habitats	<u>Materials</u>	Light and Sound	Forces and magnets	<u>Electricity</u>	Earth and space
		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 how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- organisms, plants and animals Give reasons for classifying plants and animals based on specific characteristics		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 give out or reflect light into the eye Explain that we see things because light travels from		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 components function, including the	

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Describe the ways in which nutrients and water are transported within animals, including humans.	Recognise thatliving things havechanged overtime and thatfossils provideinformation aboutliving things thatinhabited theEarth millions ofyears agoRecognise thatliving thingsproduce offspringof the same kind,but normallyoffspring vary andare not identicalto their parentsIdentify howanimals and plantsare adapted tosuit theirenvironment indifferent ways andthat adaptationmaylead to evolution	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	brightness of bulbs, the loudness of buzzers and the on/off position of switches Use recognised symbols when representing a simple circuit in a diagram