



				Sci	200					
	Animals Including Humans-pupils should be taught to:									
Class 1	Class 2	Class 3	Class 4	Class 5	Class 6					
Reception Explore the natural world around them, making observations and drawing pictures of animals and plants  Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices	Year 1 Identify and name a variet including fish, amphibians mammals  Identify and name a variet that are carnivores, herbive Describe and compare the common animals (fish, am and mammals, including pure Identify, name, draw and the human body and say wassociated with each sense Year 2  Notice that animals, including spring which grow into Find out about and describe animals, including humans food and air)  Describe the importance for eating the right amounts of and hygiene.	y of common animals ores and omnivores structure of a variety of uphibians, reptiles, birds nets) label the basic parts of which part of the body is adults the the basic needs of s, for survival (water,	Year 3  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.  Year 4  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.		Year 5:  Describe the changes as humans develop to old age  Year 6:  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.					





	P	lants-pupils s	hould be taught	to:	
Class 1	Class 2	Class 3	Class 4	Class 5	Class 6
Reception Explore the natural world around them, making observations and drawing pictures of animals and plants	Identify and describe the b	eciduous and evergreen asic structure of a variety	Identify and describe the functions of different parts of flowering plants: roots stem/trunk, leaves and flowers		
	of common flowering plant  Year 2  Observe and describe how into mature plants  Find out and describe how and a suitable temperature healthy.	seeds and bulbs grow plants need water, light	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 plant  Investigate the way in which		
	Treature.		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.		





					book
	Living Things	& their Habit	ats-pupils shou	ld be taught to:	
Class 1	Class 2	Class 3	Class 4	Class 5	Class 6
Reception Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class	Year 2 Identify that most living to which they are suited and habitats provide for the backinds of animals and plan on each other  Identify and name a varie in their habitats, including Describe how animals obten and other animals, using the chain, and identify and not food.  Explore and compare the atthat are living, dead, and been alive	describe how different usic needs of different ts, and how they depend ty of plants and animals micro-habitats ain their food from plants the idea of a simple food ume different sources of lifferences between things		Year 4 Recognise that living things can be grouped in a variety of ways  Explore and use 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.  Year 5 Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird  Describe the life process of reproduction in some plants and animals	Year 6  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





	Evolution	& Inheritance	-pupils should b	e taught to:	thorit ( )
Class 1	Class 2	Class 3	Class 4	Class 5	Class 6
Reception Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class Understand the past through settings, characters and events encountered in books read in class and storytelling					Year 6 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.





Seasonal Change-pupils should be taught to:								
Class 2	Class 3	Class 4	Class 5	Class 6				
Class 2 only								
stand some Year 1								
Working across the year ea	ich year:							
Observe changes across th	re four seasons							
Observe and describe the v	veather associated with							
the seasons and how day	length varies.							
Ü								
	Class 2 Class 2 only Year 1 Working across the year ea Observe changes across the Observe and describe the v	Class 2 Class 3 Class 2 only	Class 2 Class 3 Class 4  Class 2 only  Year 1  Working across the year each year: Observe changes across the four seasons Observe and describe the weather associated with	Class 2 Class 3 Class 4 Class 5  Class 2 only Year 1 Working across the year each year: Observe changes across the four seasons Observe and describe the weather associated with				





Forces-pupils should be taught to:						
Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	
			Forces and magnets Year 3: 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 some materials and not others  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  Describe magnets as having two poles  Predict whether two magnets will attract or repel each other, depending on which poles are facing.		Forces Year 5: Explain that unsupporte objects fall towards the Earth because of the for of gravity acting between the Earth and the falling object  Identify the effects of a resistance, water resistance and friction, that act between moving surfaces  Recognise that some mechanisms, including levers, pulleys and gear allow a smaller force to have a greater effect.	





				School	
		Light-pup	ils should be t	aught to:	
Class 1	Class 2	Class 3	Class 4	Class 5	Class 6
				Year 3: Recognise that they need light in order to see things and that 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 their eyes	
				Recognise that shadows are formed when the light from a light source is blocked by an opaque object	
				Find patterns in the way that the size of shadows change.  Year 6:	
				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 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.	

Great Ellingham Science Knowledge Progression Map





Sound-pupils should be taught to:						
Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	
			Year 4: 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.





					chool
	 Earth	& Space-pup	ils should be tai	ught to:	
Class 1	Class 2	Class 3	Class 4	Class 5	Class 6
Ciuss I	Ciuss 2	Cuiss 3	Ciuss 4	Cuiss 5	Ciuss 0
					Year 5:
					Describe the 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.
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Class 1	Class 2	Class 3	Class 4	Class 5	Class 6
				Year 4:	Year 6:
				Identify common	Associate the brightne
				appliances that run on	of a lamp or the volun
				electricity	of a buzzer with the
					number and voltage o
				Construct a simple series	cells used in the circui
				electrical circuit, identifying	
				and naming its basic parts,	Compare and give
				including cells, wires,	reasons for variations
				bulbs, switches and buzzers	how components
				I desetifica and estimate and estimate	function, including th
				Identify whether or not a lamp will light in a simple	brightness of bulbs, the loudness of buzzers as
				series circuit, based on	the on/off position of
				whether or not the lamp is	switches.
				part of a complete loop	300 1103 1103
				with a battery	Use the recognised
				The same of the sa	symbols when
				Recognise that a switch	representing a simple
				opens and closes a circuit	circuit in a diagram.
				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.	





Materials-pupils should be taught to:							
Class 1 Class 2 Class 2 Class 4 Class 5			ht to:	pils should be taug	iterials-pu	Mo	
Class 1 Class 3 Class 4 Class 5	Class 1	Class 6	Class 5	Class 4	Class 3	Class 2	Class 1
Reception Understand some important processes and changes in the natural post of the natural post post of the natural post of	Inderstand some mportant processes and changes in the natural world around them, ncluding the seasons and changing states of matter Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and	ther e basis of their sparency, at thermal), s will a solution, ver a liquids and cures might avough corating vidence from s, for the ay materials, and plastic ing, mixing reversible es result in terials, and s not usually uges and the	Year 5: Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and 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 solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating Give reasons, based on 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 this kind of change is not usually reversible, including changes associated with burning and the	Year 3: 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 from rocks and organic matter.  States of matter Year 4: 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	y of everyday plastic, glass, metal, l properties of a ls er a variety of pasis of their simple securitability of a variety ding wood, metal, aper and cardboard solid objects made e changed by	Year 1: Distinguish between an obj from which it is made  Identify and name a variety materials, including wood, water, and rock  Describe the simple physical variety of everyday materials on the lephysical properties.  Uses of Everyday Material Year 2  Identify and compare the sof everyday materials, incluplastic, glass, brick, rock, plor particular uses  Find out how the shapes of from some materials can be	Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter  Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and



