	Early Years (Early Learning Goals/Development Matters)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
BIOLOGY ANIMALS, INCLUDING HUMANS	<ul> <li>Explore the natural world around them, making observations and drawing pictures of animals and plants</li> <li>Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter</li> <li>Explore the natural world around them</li> <li>Understand the effect of changing seasons on the natural world around them</li> <li>Plant seeds and care for growing plants</li> <li>Understand the key features of the life cycle of a plant and an animal</li> <li>Begin to understand the need to respect and care for the natural environment and all living things.</li> </ul>	identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals     notice that animals, including humans, have offspring which grow into adults	Going Wild  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.  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.		Come Fly with me - Africa!  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.  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.		That's Life!  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.  describe the changes as humans develop to old age.

				Unity in the Community  identify and name a	<ul><li>Under the Canopy</li><li>identify and describe</li></ul>		
	PLANTS			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.  observe and describe how seeds and bulbs grow into mature plants  find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers 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 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		
BIOLOGY	IINGS AND THEIR HABITATS	<ul> <li>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</li> <li>Describe what they see, hear and feel whilst outside</li> <li>Explore the natural world around them</li> <li>Begin to understand the need to respect and care for the natural environment and all living</li> </ul>	Happily Ever After  explore and compare the differences between things that are living, dead, and things that have never been alive  Come Fly with My, Arctic Circle  identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other  identify and name a variety of plants and animals in their habitats, including microhabitats	Unity in the Community  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.  Beside the Seaside  Identify and name a variety of plants and animals in their habitats, including microhabitats.  identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other	dispersal	Come Fly With me Africa  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  Picture Our Planet  recognise that environments can change and that this can sometimes pose dangers to living things.  (not taught discreetly in science lesson – lessons planned in theme for conservation)	I Have a Dream  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.  describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals  give reasons for classifying plants and animals
	LIVING THINGS		including microhabitats			conservation)	

			ROCKY THE FINDOSAUR – YEAR 4		I HAVE A DREAM		
BIOLOGY	EVOLUTION			ve changed over time and that fossils provide information ted the Earth millions of years ago	offspring vary and are identify how animals a	hings produce offspring of the not identical to their parents and plants are adapted to suit tion may lead to evolution.	•
CHEMISTRY	MATERIALS	<ul> <li>Use senses in hands-on exploration of natural materials.</li> <li>Explore collections of materials with similar and/or different properties.</li> <li>Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter</li> <li>Talk about the differences between materials and changes they notice.</li> </ul>	Come Fly With Me – Arctic Circle  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 everyday materials on the basis of their simple physical properties.  identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses  find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.		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     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.	Understand the effects of water and fire on certain materials and link this to their uses     To distinguish between an object and the material from which it is made.     To understand the difference between man-made and natural materials and identify and sort both	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 action of acid on bicarbonate of soda.

		<ul> <li>Describe what they see,</li> </ul>	Land Ahoy!	A World Of Difference	Picture our Planet	 Wars of the World
PHYSICS	LIGHT AND SOUND	Describe what they see, hear and feel whilst outside	identify how sounds are made, associating some of them with something vibrating recognise that sounds get fainter as the distance from the sound source increases.  Light Up The World recognise that light from the sun can be dangerous and that there are ways to protect their eyes recognise that they need light in order to see things and that dark is the absence of light recognise that shadows are formed when the light from a light source is blocked by a *(solid) object	R World Of Difference     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.	Picture our Planet  Individual patterns between the pitch of a sound and features of the object that produced it  Individual patterns between the volume of a sound and the strength of the vibrations that produced it  Identify how sounds are made, associating some of them with something vibrating  recognise that vibrations from sounds travel through a medium to the ear	recognise that light appears to travel in straight line     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.
\Hd	FORCES	Explore and talk about different forces they can feel	Compare how things move on different surfaces.  Distinguish between a push and pull force.  Come Fly With Me – Arctic Circle  materials can be changed by squashing, bending, twisting and stretching.	May The Force be With you  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 where the poles are facing.	Athens vs Sparta  know that some objects float whilst others sink  understand that displacement occurs when you place something in liquid	A World of Bright Ideas     explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object     identify the effects of air resistance, water resistance and friction, that act between moving surfaces     recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

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				Zero to Hero	Lightning Speed	Full of Beans
				To know about simple	identify common	Identify common
				circuits involving batteries,	appliances that run on	appliances that run
				wires, bulbs and other	electricity	on electricity.
				components To know how a	<ul> <li>construct a simple</li> </ul>	associate the
				switch can be used to break	series electrical circuit,	brightness of a
				a circuit	identifying and naming	lamp or the
					its basic parts, including	volume of a buzzer
					cells, wires, bulbs,	with the number
					switches and buzzers	and voltage of cells
					<ul> <li>identify whether a lamp</li> </ul>	used in the circuit
					will light in a simple	compare and give
					series circuit, based on	reasons for
	_				whether or not the	variations in how
	$\vdash$				lamp is part of a	components
	ᇙ				complete loop with a	function, including
	$\overline{\epsilon}$				battery	the brightness of
	ELECTRICITY				<ul> <li>recognise that a switch</li> </ul>	bulbs, the loudness
	ပ္ပ				opens and closes a	of buzzers and the
40	Щ.				circuit and associate this	on/off position of
PHYSICS	団				with whether or not a	switches
$\frac{1}{2}$					lamp lights in a simple	• use recognised
<b>5</b> 7					series circuit	symbols when
I					<ul> <li>recognise some</li> </ul>	representing a
<u> </u>					common conductors	simple circuit in a
					and insulators, and	diagram.
					associate metals with	
					being good conductors.	Full of Beans
						Understand the
						term 'energy' and
						identify a range of
						different
						renewable and
						non-renewable
_						energy sources.
		• Understand the effect of	Come Fly With Me – Arctic Ci			Mission Control – Year 5
		<u>changing seasons</u> on the	<ul> <li>observe changes across t</li> </ul>			describe the movement of the Earth, and other planets, relative to the Sun in the solar
	9	natural world around	<ul> <li>observe and describe wes</li> </ul>	ather associated with the seasons an	d how day length varies.	system
	EARTH AND SPACE	them				describe the movement of the Moon relative to the Earth
	Ξ¥					describe the Sun, Earth and Moon as approximately spherical bodies
	R SP					• use the idea of Earth's rotation to explain day and night and the apparent movement of
	_ გ ა					the sun across the sky
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