	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals including 1umans	Be increasing independent in knowing their care needs, incl healthy choices Understand the key features of the life cycle of an animal.	Understand the key features of the life cycle of an animal Name and describe animals around them (school environment and local area), using their five senses.	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, mammals, including pets) Identify, name, draw and Iabel basic parts of the human body and say which part of the body is associated with which sense.	Notice that animals, including humans, have offspring which grow into adults (name adult and its young) To find out how animals change as they grow into adults- lifecycles (adult/duck) Find out 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	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	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.	Describe the changes as humans develop into 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 die exercise on the way their bodies function Describe the ways in which nutrients and water are transported within animals including humans,
Materials	Explore and compare materials (investgate sink and float, shadows) Begin to notice changes. (melting, heating foods, mixing ingredients)	Observe and investigate natural processes change of state (melting, cooking), forces (magnets, floating, sinking) light (transparency, shadows) sound(vibrations) Describe and comment on natural processes they have observed.	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.	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 Compare and group materials together, according to whether they are solids liquids or gases Observe that some materials change state when they are heated, cooled and measure or research the temperature at which this happened in degrees (Celcius) Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature	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 a 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 filtering, sieving and evaporating Give reasons based on evidence from comparative fair tests, for the particular uses of everyday materials, including metals, woods and plastic Demonstrate that dissolving, mixing and changes of state are reversible changes result in the formation of new materials, and that this kind of change is not usually reversible.	

Plants	-Understand the key	Understand the key features	Identify and name a variety	Observe and describe how	Identify and describe the		
	features of the life cycle of a	of the life cycle of a plant.	of common wild and garden	seeds and bulbs grow into	functions of different parts of		
	plant. (plant seeds so that children	( plant seeds and bulbs- chn observe growth and decay	plants, including deciduous and evergreen trees.	mature plants (know how seeds and bulbs	flowering plants: roots, stem/trunk, leaves and		
	observe growth and decay	overtime, draw pics and	(make close observations	are diff)	flowers		
	overtime)	describe)	and compare key features of				
			diff plants	compare plants growing	Explore the requirements for		
		Describe plants around them		from both)	life and growth (air, water,		
	Begin to understand the need to respect and care for	(local area and school environment) using their five	Identify and describe the basic structure of a variety	Find out and describe how	nutrients from soil, and room to grow) and how they vary		
	the natural environment.	senses)	of common flowering plants	plants need water, light and	from plant to plant		
			including trees (sort and	suitable temperature to grow			
			group parts of plants using	and stay healthy	Investigate the way in which		
			sim and diff)		water is transported within		
					plants (e.g. by observing plants with		
					roots removed, puting white		
					carnations in coloured water)		
					Explore the part that flowers play in the life cycle of		
					flowering plants, including		
					pollination, seed formation		
					and seed dispersal		
Forces and Magnets	Explore forces around us				Compare how things move on different surfaces	Explain that unsupported objects fall towards the Earth	
	(explore forces in water) (explore pushes, pulls and				on different surfaces	because of the force of	
	stretching/bending)				Notice that some forces	gravity acting between the	
	(explore magnetic attraction				need contact between two	Earth and the falling object	
	and repulsion)				objects, but magnetic forces		
	Explore mechanical				can act at a distance	Identify the effects of air resistance and friction, that	
	equipment				Observe how magnets	act between moving	
	(play,investigate and talk				attract or repel each other	surfaces	
	about what happens with e.g.				and attract some materials		
	wind up toys, pulleys, cogs)				and not others	Recognise that some mechanisms including levers,	
					Compare and group	pulleys and gears allow a	
					together a variety of	smaller force to have a	
					everyday materials on the	greater effect	
					basis of whether they are		
					attracted to a magnet, and identify some magnetic		
					materials		
					Describe magnet as having		
					two poles		
					Predict whether 2 magnets		
					will attract or repel each		
					other, depending on which		
					poles are facing		

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Light/ Sound		Recognise the need for light	Identify how sounds are		Recognise that light appears
		in order to see things and	made, associating some of		to travel in straight lines.
		that dark is the absence of	them with something		
		light	vibrating		Use the idea that light travels
					in straight lines to explain
		Notice that light is reflected	Recognise that vibrations		that objects are seen
		from surfaces	from sounds travel through a		because they give out or
			medium to the ear		reflect light
		Recognise that light from the			
		sun can be dangerous and	Find patterns between the		explain that we see things
		that there are ways to	pitch of a sound and		because light travels from
		protect their eyes	features of the object that		light sources to our eyes, to
			produced it		objects and then to our eyes.
		Recognise that shadows are			
		formed when light from a	Find patterns between the		Use the idea that light travels
		source is blocked by an	volume of a sound and the		in straight lines to explain
		opaque object	strength of the vibrations		why shadows have the same
			that produced it		shape as objects that cast
		Find patterns in the way that			them.
		the size of shadows change.	Recognise that sounds get		
		5	fainter as the distance from		
			the sound source increases		
Electricity			Identify common appliances		Associate the brightness of a
Elocationag			that run on electricity		bulb or the volume of a
			and for on orocariong		buzzer with the number and
			Construct a simple series		voltage of cells used in the
			electrical circuit, identifying		circuit
			and naming its basic parts,		Circon
			including cells, wires, bulbs,		Compare and give reasons
			switches and buzzers		for variations in how
			Switches and Dozzers		components function,
			Identify whether or not a		including the brightness of
			lamp will light in a series		bulbs, the loudness of
			circuit, based on whether or		bulls, the loudness of buzzers and the on/off
			not the lamp s part of a		position of switches
					position or switches
			complete loop with a battery		Liss recognized sumber-
			Recognise that a switch		Use recognised symbols when representing a simple
			opens and closes a circuit		circuit 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	1	1

	abitats	Begin to understand the need to respect and care for the natural environment.	Begin to understand the need to respect and care for the natural environment (describe plants around them and how to care for them)		Explore and compare the differences 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 for the basic needs of different kinds of animals and plants, 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.	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 this this can sometimes pose dangers to living things	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 micro-organisms and plants give reasons for classifying plants and animals based on specific characteristics Evolution Recognise that living things have changed over time and that fossils provide information about living
м	iscellaneous		Understand the effects of changing season on the natural world around them. Rescognise some environments that are different from the one they live.	Seasonal Changes Observe the changes of the four seasons Observe and describe weather associated with the seasons and how day length varies			Earth and space 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.	Earth millions of years ago Recognise that living things produce offspring of some kind, but normally offspring vary and are not identical to their parents Identify how plants and animals are adapted to suit their environments in different ways and that adaptation may lead to evolution.