





<u>EYFS</u>	Early Learning Goals/Development matters	Additional learning to build towards
	Communication and language: Learn new vocabulary. Ask questions to find out more and to check what has been said to them. Articulate their ideas and thoughts in well-formed sentences. Describe events in some detail. Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. Use new vocabulary in different contexts Personal, social and emotional development: Know and talk about the different factors that support their overall health and wellbeing: - regular physical activity - healthy eating – tooth brushing - sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian	year 1 - Begin to name a range of animals and simple body parts - Begin to name familiar plants and begin to name some of their parts - Begin to name a range of familiar materials - Begin to name seasons and their characteristics
	Understanding the World: Explore the natural world around them. Describe what they see, hear and feel while they are outside. Recognise some environments that are different to the one in which they live. Understand the effect of changing seasons on the natural world around them.	

Areas of Study	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals including humans	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	Understand that animals, including humans, have offspring which grow into adults 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	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.	Describe the changes as humans develop to 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 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 (see also Evolution and inheritance)
Vocabulary	Body, head, neck, arms, elbows, legs, knees, face, ears, eyes, eyebrows, eyelashes, nose, hair, mouth, teeth, tongue, feet, toes, fingers, nails, ankle, calf, thigh, hips, waist, chest, shoulders, back, hands, wrist, tail, wing, claw, fin, scales, feathers, fur, beak, senses, hearing, seeing, touching,	offspring, reproduce, life cycles, grow, change, adults, basic needs, water, food, air survival, exercise, food types (fruit and veg, bread, rice, pasta, milk, dairy, foods high in fat and sugar, meat, fish, eggs, beans), hygiene, healthy lifestyle	Nutrition, food types, carbohydrates, protein, vitamins and minerals, fat, sugar, fruits and veg, dietary fibre, water, balanced diet, skeleton, muscles, support, protection, movement, names of bones, vertebrate, invertebrate	Digestive system, nutrition, mouth, teeth, canine, incisor, molar, pre-molar, saliva, tongue, rip, tear, chew, grind, cut, oesophagus (gullet), stomach, small intestine, large intestine, rectum, anus, carnivore, herbivore, omnivore, producer, consumer, predator, prey, food chain	Prenatal, infancy, childhood, adolescence, adulthood, fertilisation,, gestation, a sexual and sexual reproduction, puberty, life expectation	Circulatory system, heart, blood, blood vessels, pumps, oxygen, carbon dioxide, lungs, nutrients, water, diet, exercise, drugs, lifestyle, evolution, suited/suitable, adapted, adaptation, offspring, reproduction, variation, inherit, inheritance, fossils
	smelling, tasting					
Living things and their habitats	Begin to recognise why things are living Group into living and non-living Identify and name a variety of minibeasts Identify and name a variety of common animals including fish, amphibians, reptiles, birds, mammals and minibeasts Describe and compare the structure of a variety of common minibeasts	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, 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		Recognise that living things can be grouped in a variety of ways Explore and use classification keysto help group, identify and name a variety of living things in their local and wider environment. Recognise that environments canchange and that this can sometimes pose dangers to livingthings.	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 based on specific characteristics (see also Evolution and inheritance)

Vocabulary	Living, non living, minibeast, names of a variety of common minibeasts, Mammal, reptile, bird, amphibian,	Living, dead, never been alive, names of local habitats, pond, woodland, meadow, name micro		Classification keys, environment, fish, amphibians, reptiles, birds, mammals, vertebrates,	Life cycle, reproduction, sexual, asexual, germination, pollination, seed formation, seed dispersal,	Organism, micro-organism, fungus, mushrooms, classification keys, environment,
	wings, shell, antennae, feelers, legs, body, eyes, move, breathe, grow reproduce	habitats, under log, stony path, under bushes, suited, basic needs, depend, food, food chain, shelter		invertebrates, names of animals, human impact, positive, negative(impact).	pollen, stamen, stigma, plantlets, runners, mammal, amphibian, insect, bird, fish, reptile, eggs, live young	fish, amphibians, reptiles, birds, ,mammals, vertebrates, invertebrates, name some of these, arachnid, mollusc, insect, Crustacean, myriapod
Plants	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.	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	Identify and describe the functions of differentparts of flowering plants: roots, stem/trunk, leaves and flowers Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, androom 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.			

Vocabulary Seasonal	Names of: wild plants, garden plants, flowering plants and trees leaf, flower, blossom, petal, fruit, berry, root, bulb, seed, trunk, branch, stem, bark, stalk, vegetable Observe changes across the four	seeds, bulbs, water, sunlight, temperature, growth, healthy, shoot, seedling, germinate,	leaf, flower, blossom, petal, fruit, root, bulb, seed trunk, branch, stem, water, sunlight, air, nutrients, soil, fertiliser, grow, healthy, transported, life cycle, pollination, seed formation, seed dispersal, evaporation, stamen, carpel, sepal			
change	seasons - observe and describe weather associated with the					
	seasons and how day length varies.					
Vocabulary	Season, spring, summer, autumn, winter, weather, hot, warm, cool cold, sunny, cloudy, windy, rainy, snowing, hailing, sleet, frost, fog, mist, icy, rainbow, thunder, lightning, storm, light, dark, day, night					
Everyday materials (Y1) Uses of everyday materials (Y2) States of matter (Y4) Properties and changes of materials (Y5)	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 every the basis of their properties, includ hardness, solubility, transparency, (electrical and thermal), and responsive the solution, and describe how a substance from a solution. Use knowledge of solids, liquids and how mixtures might be separated, through filtering, sieving and evaporate of the solution and fair tests, for the particular use materials, including metals, wood a Demonstrate that dissolving, mixing state are reversible changes. Explain that some changes result in new materials, and that this kind of usually reversible, including change burning and the action of acid on b soda.	ing their conductivity nse to magnets. plve in liquid to to recover a d gases to decide including prating. om comparative es of everyday and plastic. g and changes of the formation of f change is not es associated with
Vocabulary	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, cardboard, rubber, wool, clay, hard, soft, stretchy, rigid, flexible, waterproof, absorbent, rough, smooth, shiny, dull, see through, not see through	Suitable/unsuitable, object, material, property, wood, plastic, glass, metal water, rock, fabric, hard, soft, stretchy, flexible, rigid, waterproof, absorbent, transparent, opaque, hard, sort, rough, smooth, shape, change, twist, squash, bend, stretch, roll, squeeze		States of matter, solid, liquid, gas, air, oxygen, powder, granular/grain, crystals, change state, ice/water/steam, water vapour, heating, cooling, temperature, degrees celsius, melt, freeze, solidify, melting point, boil, boiling point, evaporation, condensation, water cycle, precipitation, transpiration	Y4 plus rigid, hard, soft, stretchy, flexible, waterproof, absorbent, electrical/thermal conductivity, melting, dissolve, solution, insoluble, solute, solvent, particle, mixture, filtering, sieving, residue, reversible/non reversible changes, new material, burning, rusting,	

Rocks	Compare and group together different kinds of	- (see Evolution and inheritance)
Nocks	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.	
Vocabulary	Rock, stone, pebble, boulder,	
	soil, fossils, grains, crystals,	
	texture, absorb water, let water	
	through, marble, chalk, granite,	
	sandstone, slate, sandy soil,	
	clay soil, chalky soil, peat,	
	igneous, metamorphic,	
	sedimentary, permeable,	
	impermeable, sediment	
Light (Y3 and 6)	, , , , , , , , , , , , , , , , , , , ,	unds are made, recognise that light appears to
		ne of them with travel in straight lines
Sound (Y4)	dark is the absence of light. something vibr	
sound (11)		vibrations from straight lines to explain that
		orough a medium objects are seen because they
	Recognise that light from the to the ear.	give out or reflect light into the
		etween the pitch eye
	, · · ·	features of the explain that we see things because light travels from light
	eyes. object that pro Recognise that shadows are Find patterns b	
	formed when the light from a volume of a so	, ,
		vibrations that sources to objects and then to
	opaque object. strength of the	· ·
		ter as the distance straight lines to explain why
	, , , , , , , , , , , , , , , , , , ,	source increases. Shadows have the same shape as
	the size of shadows change	the objects that cast them.
		the objects that cast them.
Vocabulary	Light, light source, darkness, Sound, sound s	ource, noise, Light, light source, darkness,
Vocabalary		l, distance, solid, reflect, reflective, shadow, block,
		, tune, high, low, absorb, direction, transparent,
	transparent, opaque, volume, loud, o	
	translucent, pupil, retina muffle, strengt	
	insulation,instr	·
	percussion, str	·
	woodwind, tur	
	Instrument, an	plitude, pitch, loud,
	quiet, ear drun	

Forces and magnets (Y3) Forces (Y5)	Begin to name push, pull and twist as a force Begin to recognise that forces make things move, change shape and speed up	Can name push, pull and twist as a force Explain the direction something moves when it is pushed, pulled or twisted Explain that forces make things move, speed up, slow down and change shape Describe how to make a familiar object speed up and slow down	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		- 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.		ravity acting bject - identify resistance and urfaces - ncluding	
Vocabulary	Push, pull, twist, (other words that can be grouped into push, pull and twist),	Force, push, pull, twist, speed up, slow down, direction	Force, friction, magnetic force, magnet, strength, bar/ring/button/horseshoe magnets, attract, repel, magnetic material, metal, iron, steel, non magnetic, poles, north/south pole		Fall, Earth, gravity pull, weight, mass water resistance, moving surfaces, levers, pulleys, ge transfers, buoyan	s,air resistance, friction, mechanisms, ears, force,		
Electricity			Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. 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.		- associate the brightness of a lamp or t a buzzer with the number and voltage o the circuit - compare and give reasons f in how components function, including t of bulbs, the loudness of buzzers and th position of switches - use recognised syr representing a simple circuit in a diagrar		ge of cells used in ons for variations ing the brightness d the on/off d symbols when	
			and associate this v in a simple series ci Recognise some coi	vitch opens and closes a circuit with whether or not a lamp lights ircuit. mmon conductors and insulators, ils with being good conductors.				
Vocabulary			circuit, complete cir symbol, component connect, connection clip, bulb, bright/dir	te, device, mains, plug, electrical rcuit, circuit diagram, circuit ts, cell, battery, positive/negative, n, short circuit, wire, crocodile m, switch, buzzer, motor, luctor, insulator, metal/non			Electricity, appl electrical circuit circuit, circuit d symbol, compo battery, positive terminal, conne- circuit, wire, cro- bright/dim, swi volume, motor, insulator, voltag resistance, curr- electrons	t, complete liagram, circuit enents, cell, e, negative, ection, short ocodile clip, bulb, itch, buzzer, , conductor, ge, current,

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.		
Vocabualry			moon, celestial rotation, spin, names of plane orbit, geocentr	ets, dwarf planet,	
Evolution and inheritance (note for Year 6 – see Plants; Animals, including humans; Living things and their habitats; and Rocks for how some of these aspects have been covered lower down the school)				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.	
Vocabulary				Offspring, inheritance, characteristics, variation, adaption, environment, natural selection, adaptive traits, inherited traits, evolution, fossil	