

	Animals, including humans	Living things and their habitats	Plants
Reception	Identify something as an animal	See 'Animals including humans'	Identify something as a plant
	Name some places animals live		Name some common plants, identify leaf, root, stem and
	Identify and locate parts of their body		flower
	Identify and locate parts of animals bodies		Recognise that plants need water to grow
	Use their observations to describe humans and other animals		Name some places plants live
	Name a very limited range of food		Identify the seeds in a fruit
	Can identify types of exercise		
	Name baby, child, adult and the young of some other animals		
Year	Different Animals	<u>Seasonal changes</u>	<u>In the Garden</u>
1			
	Identify and name a selection of animals	Observe changes across the four seasons	Make observations of plants, including flowers and
	Identify and sort animals into different groups	Identify what to observe	vegetables they have planted
	Name the different groups of animals	Use descriptive words, photos and pictures to record	Identify the leaf, root, stem and flower of a plant
	Identify and name a variety of common animals including	changes	Identify the trunk, branch, roots and leaves of a tree
	fish, amphibians, reptiles, birds and mammals	Collect evidence of changes (e.g. leaves, seeds, flowers)	Know that plants produce seeds
	Make observations of animals	Name the four seasons	Identify differences between plants
	Know that animals eat different types of food	Recall simple changes associated with each season	Identify and describe the basic structure of a variety of
	Identify the food of some common animals	Observe and name types of weather (e.g. rain, sun, wind,	common flowering plants, including trees
	Recall and use the words: carnivore, herbivore and omnivore	clouds)	Name some common plants
	Identify and name a variety of common animals that are	Observe and describe weather associated with the seasons	Name some plants that live in the garden
	carnivores, herbivores and omnivores	and how day length varies	Name some plants that live in the wild
	Group animals that belong to: carnivores, herbivores and	Identify what to measure about the weather	Name some trees in the local environment
	omnivores	Use prepared tables and charts to record data	Recognise that different plants live in the local environment
	Use their observations to point out differences between	Use secondary data to describe weather in another setting	Use simple identification guides to name plants in the local
	humans and other animals and between animals and non-living	Explain why animals are easier to spot at different times of	environment
	things	year (e.g. migrating birds, hibernating animals)	Identify and name a variety of common wild and garden
	Describe and compare the structure of a variety of		plants, including deciduous and evergreen trees
	common animals (fish, amphibians, reptiles, birds and		Compare and contrast different plants
	mammals, including pets)		Sequence pictures of how plants changes over time
	Identify and locate the sense organs		Describe how deciduous trees changes throughout the year
	Use senses to describe textures, sounds and smells		Explain why some plants are only seen at certain times of the
	Compare differences in texture, sounds and smells		year
	Name and locate the basic parts of the human body		
	Draw and label a simple body outline		
	Describe differences between the different animal groups		
	(e.g. birds have feathers but mammals have fur)		
	Identify animals which are more likely to be seen in		
	different seasons		
	Explain why some animals are only seen at night		

Year	Growth and Survival	Habitats	Growing Plants
2	Recognise that animals produce young Notice that animals, including humans, have offspring which grow into adults Recognise changes that take place as animals get older Explain that adult animals no longer grow Describe some differences they observe between babies and toddler Make comparisons of the differences they observe between babies and toddlers Identify the offspring of a selection of different animals Use evidence to show that adult animals no longer grow Use evidence to show that children of the same age are not all the same size Use evidence to show that older children are generally taller than younger children Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Explain how to look after a pet describing what it needs to survive Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene Recognise that exercise is important Name some types of food Identify some types of food that make up their diet and name some examples of each Recognise that an adequate diet and exercise are necessary for them to grow and stay healthy Describe some of the types of food that they eat	With help, use keys to identify some animals and plants Recognise that different plants live in the local environment Identify some local habitats Describe the simple features of habitats Recognise a microhabitat as a small habitat (e.g. leaf litter, woodlice under stones) Describe some microhabitats Identify and name a variety of plants and animals in their habitats, including micro- habitats Recognise similarities and differences between plants and animals Explore and compare the differences between things that are living, dead, and things that have never been alive Explain differences between living and non-living things in terms of characteristics such as movement and growth Use their observations to point out differences between animals, plants and non-living things Recognise that plants provide food for humans and other animals within an environment Construct a simple food chain (e.g. grass, cow, human) 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 Name a few of the organisms that live in a particular habitat Suggest reasons why different plants and animals are found in the different environments 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 <i>Compare animals found in familiar habitats with unfamiliar</i> habitats <i>Compare plants found in familiar habitats with unfamiliar</i> habitats <i>Use different factors to compare a range of habitats (e.g.</i>	Know that flowering plants produce seeds which grow into new plants Know that some plants have bulbs from which they grow Make observations of plants over time Explore how plants from seeds and bulbs grow Describe what happens to bulbs during the plant cycle as they grow Describe what happens to a seed as it grows and develops Describe what they observe as new plants grow Observe and describe how seeds and bulbs grow into mature plants Compare the plant cycle for a plant from a seed with that from a bulb Suggest how to find out about what plants need in order to grow well Recognise that plants are living and need water, light and warmth to grow Describe differences between plants grown in the light and in the dark Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Explain how to look after a variety of plants Know that a seed and bulb both contain everything a plant needs to grow Explain that seeds and bulbs do not need light to germinate and identify how this is different to the needs of a plant Explain how plants in the desert survive with little water and plants in the rainforest survive with little light
Year 3	Healthy Eating and Healthy Bodies		Investigating Plants
	Identify some foods needed for a healthy and varied diet Name the components of a healthy and varied diet Describe how their diet is balanced 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 parts of flowering plants <b>Identify and describe the functions of different parts of</b> <b>flowering plants: roots, stem/trunk, leaves and flowers</b> Describe why healthy roots and a healthy stem are needed for plants to grow

	Describe the role of different food groups Compare and contrast diets of animals including pets Describe an adequate and varied diet for humans, recognising that there are many ways of achieving this Know they have bones and muscles in their body State that they and other animals have skeletons Identify animals that do not have an internal skeleton (invertebrates) Group animals with and without an internal skeleton Describe some advantages of having an internal skeleton over no skeleton or an exoskeleton Describe some observable characteristics of bones Describe the main functions of their skeleton and muscles State that movement depends on both skeleton and muscles State that when one muscle contracts another relaxes Identify that humans and some other animals have skeletons and muscles for support, protection and movement Recognise that their skeletons grow as they grow Describe problems associated with broken bones or bones diseases		Recognise that the leaves of a plant are associated with healthy growth and more specifically nutrition Recognise that plants need light, water and warmth and healthy leaves, roots and stems in order to grow well Know that water travels from the roots up the stem <b>Explore the requirements of plants for life and growth</b> (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant Know that plants make their own food Know that fertilisers contain minerals Understand that plants absorb minerals from the soil (Teacher Note: plants create their own food using sunlight, water and carbon dioxide, they do not absorb food from the soil) Describe how changes to light and fertiliser affect plant growth Explain that differences in plant growth are due to the amount of light and/or water <b>Investigate the way in which water is transported within</b> <b>plants</b> Describe how the stem has a role in support and nutrition (transport of water) Explain why healthy roots and a healthy stem are needed for plants to grow <b>Explore the part that flowers play in the life cycle of</b> <b>flowering plants, including pollination, seed formation and</b> <b>seed dispersal</b> Describe how pollen and seeds are dispersed Explain the role of bees and insects in pollination Describe the processes of pollination, seed formation and seed dispersal Describe the processes of pollination, seed formation and seed dispersal Compare the roots of different plants (e.g. desert plants or rainforest trees (Teacher Note: rainforest trees have very shallow roots as the quality of the soil is poor and most of the nutrients are near the surface
Year 4	Teeth and Digestion	Classification and Interdependence	near the surface
	Identify a wider range of body parts, including some internal organs (large intestine, small intestine, brain, lungs, heart, stomach, oesophagus) Locate and name the different organs in the digestive system Describe the role of each organ in the digestive system	Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment Recognise that living things can be grouped in a variety of ways	

	Describe the simple functions of the basic parts of the digestive system in humans Explain why food needs to be broken down Recognise they need to take care of their teeth Name the different types of teeth Describe the role of each type of teeth in digestion Identify the different types of teeth in humans and their simple functions Explain how they should look after their teeth and recognise why they need to do so Explain why dentists are concerned about the amount of sugar children have State that animals have different diets and may have different kinds of teeth Explain how fossilised teeth give us clues about an animals' diet Explain why the teeth of certain types of animals need to be different Explain why humans do not have a full set of adult teeth at birth	Explore ways of grouping living things including animals and plants (flowering and non-flowering) Recognise that animals can be grouped into vertebrates and invertebrates Describe some of the characteristics of the vertebrate (fish, mammals, amphibians, reptiles and birds) groups (e.g. warm-blooded, have fur, lay eggs) Group animals into vertebrate (fish, mammals, amphibians, reptiles and birds) and invertebrates groups (snails, slugs, spiders, worms and insects) Explain why some animals are hard to classify (e.g. platypus, echidna, bat, flightless birds) Identify that some animals feed on other animals and some on plants Represent feeding relationships with simple food chains Recognise that a food chain must always start with a green plant (a producer) Represent feeding relationships within a habitat with food chains beginning with a green plant which 'produces' food for the other organisms Recognise that green plants are the ultimate source of food for all animals Use and understand the terms: producer, predator and prey <b>Construct and interpret a variety of food chains</b> , <b>identifying producers, predators and prey</b> (Teacher Note: statement moved from NC 'Animals including humans' to improve progression within topics) Use food chains to predict what might happen to the	
Year 5	Life Cycles	predators or less prey	
	Describe the changes as humans develop to old age Identify ways in which the appearance of humans changes as they get older Identify some characteristics that will not change with age Recognise stages in growth and development of humans including puberty	Sequence the life cycles of a variety of plants and animals Recognise the similarities in the life cycles of plants, animals and humans Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird Name the parts of a flower Describe the functions of some parts of a flower Describe the main functions of parts of a plant involved in reproduction Describe the processes of sexual and asexual reproduction in plants Name the parts of the human reproductive system Describe the simple functions of parts of the human reproductive system	

		Describe the life process of reproduction in some plants	
		and animals	
		Compare methods of seed dispersal	
		Know that most animals reproduce by sexual reproduction	
		Compare internal and external fertilisation in animals	
		Explain that living things need to reproduce if the species is	
		to survive	
		Compare gestation periods (pregnancy) of different animals	
		Explain what is unusual about the life cycle of a kangaroo or	
		koala	
Year 6	Humans and Health	Classification	
	Identify and name the parts of the circulatory system	Recognise that there is a wide variety of living things	
	Know that the heart is made of muscle	Understand why classification is important	
	Describe what the heart and blood vessels do	Identify vertebrates and invertebrates	
	Identify and name the main parts of the human	Name and describe the five vertebrate groups	
	circulatory system, and describe the functions of the	Describe how living things are classified into broad groups	
	heart, blood vessels and blood	according to common observable characteristics and based	
	State how to measure pulse rate	on similarities and differences, including micro-organisms,	
	Recognise that pulse rate is a measure of how fast the heart	plants and animals	
	is beating	Devise own keys to classify organisms and objects	
	Discover that during exercise the heart beats faster to	Give reasons for classifying plants and animals based on	
	take blood more rapidly to the muscles	specific characteristics	
	Make careful measurements of pulse rate	Describe early ideas about classification (e.g. Aristotle)	
	Describe the different functions of the blood (e.g.	Understand there are living things that are too small to be	
	transporting and protecting)	seen and these can affect our lives	
	Know that the blood comes from the heart in arteries and	Recognise that there are many micro-organisms, some which	
	returns to the heart in veins	can cause illness or decay	
	Know that blood carries oxygen and other essential materials	Recognise that there are useful micro-organisms which can	
	around the body	be used in food production	
	Explain how ideas about the circulatory system have changed	Describe how micro-organisms feed, grow and reproduce like	
	over time	other organisms	
	Identify some of the harmful effects of smoking	Describe evidence, from investigations, that yeast is living	
	Recognise the impact of diet, exercise, drugs and	Explain how micro-organisms can move from one food source	
	lifestyle on the way their bodies function describe the	to another or from one animal to another	
	ways in which nutrients and water are transported within	Compare the rate of reproduction in microorganisms to	
	animals, including humans	other animals	
	Recognise that care needs to be taken with medicines and	Describe how the development of the microscope has	
	that they can be danaerous	contributed to our understanding of microorganisms	
	Give several reasons why it is sometimes necessary to take	Describe how ideas about hygiene have changed over time	
	medicines	(e.a. Semmelweis)	
	Identify some harmful effects of drugs		
	Identify food as a fuel for the body	Evolution and Inheritance	
	Name the major arouns into which food is categorised and		
	identify sources for each aroun	Recognise variation in different species (e.g. doos horses)	
	Describe the main function of organs of the human body		

Explain the effect of diet on particular organs of the	Recognise that offspring have some of the features of their	
body/aspects of health	parents	
Explain the effect of exercise on particular organs of the	Recognise that living things produce offspring of the same	
body/aspects of health	kind, but normally offspring vary and are not identical to	
Explain how ideas about smoking have changed over time	their parents	
Explain why advice on diet changes	Recognise that animals have to compete for food	
(e.g. butter vs margarine, five a day, tax on sugary drinks)	Describe how animals avoid predators (e.g. speed,	
	camouflage)	
	Describe how animals and plants are adapted to their	
	environments	
	Identify how animals and plants are adapted to suit their	
	environment in different ways and that adaptation may	
	lead to evolution	
	Explain how being well adapted to an environment means an	
	organism is more likely to survive	
	Explain that animals which are better adapted to an	
	environment are more likely to survive, reproduce and pass	
	on characteristics to their offspring meaning the animal	
	species will gradually change and evolve (giraffe with the	
	tallest neck could reach more leaves to feed on)	
	Recognise that living things have changed over time and	
	that fossils provide information about living things that	
	inhabited the Earth millions of years ago	
	Explain why we do not have a complete fossil record	
	Describe the story of the peppered moth and how this	
	provides evidence for natural selection	
	Explain how antibiotic resistant bacteria provide evidence	
	for natural selection	
	Explain why we can see evidence for natural selection in fast	
	reproducing organisms like bacteria (e.g. antibiotic resistant	
	bacteria and pesticide resistant insects)	
	Explain how the introduction of a new species to an isolated	
	environment can effect native species (e.g. Dodo, Kakapo or	
	Stephen's island wren)	
	Compare the ideas of Darwin and Lamarck on evolution	