



 Key knowledge progression be explicitly taught throughout unit of work (and revised constantly through retrieval practice)	Key vocabulary All vocabulary on Crown Planners (to be explicitly taught)	Key skills progression	Assessment outcome
YFS – A foundation of scientific skills a upils should be taught to Ask questions Talk about what they see using a wid Use talk to help work out problems at To explain how things work and why Articulate their ideas and thoughts in Use new vocabulary in different conte Daily weather discussions Understanding the effects of changin Describe what they can see, hear an Explore the natural world around the Begin to understand the need to care Recognise that some environments a Know some similarities and differenc Plant seeds and care for growing pla Understand the key features of the lif Make observation and drawings of ar Make healthy choices about food, dri	le vocabulary nd organise thinking and a they might happen well-formed sentences exts (linked to the vocabula g seasons on the natural v d feel whilst outside m e and respect for the natura are different to the one whi es between the natural wo nts fe cycle of a plant and an a nimals and plants	ary on the Year One crown planners) world around us al environment and all living things ch they live rld around them and contrasting envir nimal	onments

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	Progression of knowledge, vocal	bulary, skills and suggested	assessment outcomes in Biology	
PLANTS	 <u>YEAR ONE</u> Pupils should be taught to: 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. 	YEAR ONE Leaf (noun) Stem (noun) Root (noun) Bulb (noun) Deciduous (adjective) Evergreen (adjective)	 <u>YEAR ONE</u> I know the name the roots, trunk, branches and leaves of a tree. I know the name the petals, stem, leaf and root of a plant. I know the name a variety of common wild and garden plants 	YEAR ONE Name and label plants and trees.Use a selection of vegetables for the children to identify, name and suggest which part of the plant can be eaten leaves (spinach ,cabbage ,lettuce); root (carrot, turnip, radish); stem (celery, rhubarb); flower (broccoli, cauliflower) and seeds (corn or peas) depending upon the plant. <u>Creative role-</u> play for writing (florist sending and receiving bouquet orders using common, wild or garden flowers)



		assessment outcomes in Biology	Label the parts of a flowering	
			plant Put key vocab on the board for the children to use in their writing.	
 YEAR TWO Pupils should be taught to: 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. 	YEAR TWO Seedlings (noun) Shoot (noun) Suitable (noun) Healthy (adjective) Temperature (noun) Germination (noun) Reproduction (noun)	 YEAR TWO I know and can describe how seeds and bulbs grow into plants. I know and can describe what plants need in order to grow and stay healthy (water, light & suitable temperature). 	YEAR TWO Explain how different conditions effect how plants grow	Formatted: Font color: Dark Blue



YEAR THREE YEA Pupils should be taught to: Flow • identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers Blos • 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 Polli • investigate the way in which water is transported within plants See • explore the part that flowers play in Deci	 I know and can explore and describe how water is transported within plants. I know and can describe the function of different parts of flowering plants and trees. I know and can describe the plant life cycle, especially the importance of flowers 	YEAR THREE Explain how water is transported in plants. Explain how brightly coloured petals assist successful pollination	Formatted: No underline, Font colo
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ANIMALS INCLUDING HUMANS	 YEAR ONE Pupils should be taught to: 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. 	YEAR ONE Herbivore (noun) Carnivore (noun) Omnivore (noun) Senses (noun) Fish (noun) Reptile (noun) Amphibian (noun)	 YEAR ONE I know the name a variety of animals including fish, amphibians, reptiles, birds and mammals. I know how to classify and name animals by what they eat (carnivore, herbivore and omnivore). 	YEAR ONE
	 YEAR TWO Pupils should be taught to: 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. 	YEAR TWO Hygiene (noun) Survival (noun) Nutrition (noun) Reproduce (verb) Offspring (noun) Healthy (noun)	 YEAR TWO I can describe why exercise; a balanced diet and good hygiene are important for humans. I know some different sources of food for animals. I know and can describe what animals and humans need to survive. I know how to explain the basic stages in a life cycle for animals, including humans. 	<u>YEAR TWO</u>





 YEAR THREE Pupils should be taught to: 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 THREE Nutrition (noun) Vitamins (nouns) Minerals (noun) Carbohydrate (noun) Fats (noun) Proteins (noun) Vertebrate (noun) Invertebrate (noun)	 YEAR THREE I know and can explain the importance of a nutritious, balanced diet. I know and can explain how nutrients, water and oxygen are transported within animals and humans. I know how to describe and explain the skeletal system of a human. I know how to describe and explain the muscular system of a human. 	<u>YEAR THREE</u>
 YEAR FOUR Pupils should be taught to: 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 FOUR Nutrition (noun) Predator (noun) Prey (noun) Producer (noun) Contraction (noun) Absorb (verb) Digestion (noun)	 YEAR FOUR I can describe the functions of the organs in the human digestive system. I can identify and name the parts of the human digestive system. I can use food chains to identify producers, predators and prey. I can construct food chains to identify producers, predators and prey. I can describe the functions of different human teeth. I can identify and describe the different types of teeth in humans 	YEAR FOUR
YEAR FIVE Pupils should be taught to: • describe the changes as humans develop to old age.	YEAR FIVE Puberty (noun) Reproduce (verb) Toddler (noun)	 <u>YEAR FIVE</u> I can create a timeline to indicate stages of growth in humans 	YEAR FIVE





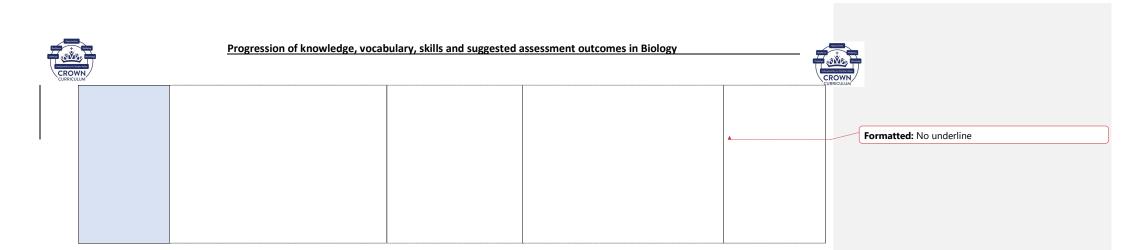
	EAR SIX	Adolescence (noun) Adulthood (noun) Gestation (noun) Foetus (noun) Sexual (noun) Asexual (noun) Reproduction (noun)	YEAR SIX	YEAR SIX
•	ipils should be taught to: identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood 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.	Skeleton (noun) Digestion (verb) Circulation (verb) Blood vessels (noun) Circulatory system (noun)	 I can identify and name the main parts of the human circulatory system. I can describe the functions of the heart, blood vessels and blood. I can recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function I can describe the ways in which nutrients and water are transported within animals, including humans. 	





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LIVING THINGS AND THEIR HABITATS	 YEAR TWO Pupils should be taught to: 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 micro-habitats 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. 	YEAR TWO Living (adjective) Non-living (adjective) Habitat (noun) Food chains (noun) Ocean (noun) Rainforest (noun) Dependable (adjective)	 YEAR TWO I know and can describe how a specific habitat provides for the basic needs of things living there (plants and animals). I know how to identify things that are living, dead and never lived. I know how to identify and name plants and animals in a range of habitats. I know how to match living things to their habitat. I know and can describe how animals find their food. I know how to explain a simple food chain 	EYFS

	Progression of knowledge, vocal	oulary, skills and suggested a	assessment outcomes in Biology		
OWLAWA NICULUMA	 YEAR FOUR Pupils should be taught to: 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 FOUR Amphibian (noun) Invertebrate (noun) Vertebrate (noun) Characteristic (noun) Environment (noun) Ecology (noun) Population (noun) Development (noun)	 YEAR FOUR I can use classification keys to group, identify and name living things. I can describe how changes to an environment could endanger living things. I can group living things in different ways. 	YEAR FOUR Research how environmental changes effect endangered animals and show research on a poster,	Formatted: Font color: Dark Blue
	 <u>YEAR FIVE</u> Pupils should be taught to: 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 FIVE Mammal (noun) Habitat (noun) Gestation (noun) Amphibian (noun) Sexual (adjective) Asexual (adjective) Reproduction (noun)	 YEAR FIVE I can describe the life cycle of different living things, e.g. mammal, amphibian, insect, bird. I can describe the differences between different life cycles. I can describe the process of reproduction in plants I can describe the process of reproduction in animals. 	YEAR FIVE Using taught knowledge and secondary research, accurately draw label and explain a plant and animal life cycle	<u>n</u>







YEAR SIX YEAR SIX Pupils should be taught to: • describe how living things are classified into broad groups according to common observate (noun) vertebrate (noun) invertebrate (noun) invertebrate (noun) Species (noun) • I can describe how living things into broad groups according to common observation on similarities and differences, including microorganism, plants and animals • I can classify living things into broad groups according to observable characteristics and based on specific characteristics • give reasons for classifying plants and animals • give reasons for classifying plants and animals based on specific characteristics • I can describe how living things into broad groups according to observable characteristics and based on similarities & differences. • give reasons for classifying plants and animals based on specific characteristics • YEAR ONE • give reasons for classifying plants and animals based on specific characteristics • YEAR ONE • give reasons for classifying plants and animals based on specific characteristics • YEAR ONE • give reasons for classifying plants and animals based on specific characteristics • YEAR ONE • give reasons for classifying plants and animals based on specific characteristics • YEAR ONE • give reasons for classifying plants and animals based on specific characteristics • YEAR ONE • give reasons for classifying plants and differences. • YEAR ONE • YEAR ONE YEAR ONE	N.				CCRC
		 Pupils should be taught to: 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 	Micro-organism (noun) Vertebrate (noun) Invertebrate (noun) Fungi (noun) Species (noun)	 I can describe how living things have been classified. I can classify living things into broad groups according to observable characteristics and based on similarities & differences. 	
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		 observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies. 	Rain (noun) Weather symbol (noun) Deciduous (adjective) Autumn (noun) Winter (noun) Spring (noun) Summer (noun)	 I know and can observe and comment on changes in the seasons. I know and can name the seasons and suggest the type of weather in each season. 	CUR
	EVOLUTION AND INHERITANCE	 <u>YEAR SIX</u> Pupils should be taught to: 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 	YEAR SIX Evolution (noun) Inheritance (noun) Traits (noun) Offspring (noun) DNA (noun)	 YEAR SIX I can describe how the earth and living things have changed over time. I can explain evolution. I can link adaptation over time to evolution. I can explain how animals and plants are adapted to suit their environment. I can explain about reproduction and offspring (recognising that offspring normally vary and are not identical to their parents). I can explain how fossils can be used to find out about the past. 	