

loving laughing learning



Knowledge Progression

Biology

Strand	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Living things and their habitats	<ul style="list-style-type: none"> • Know how to explore, be curious, appreciate and respect living things 	<ul style="list-style-type: none"> • Know and understand the key features of the life cycle of a plant and an animal • Know the need to respect and care for the natural environment and all living things • Know how to closely observe the natural world and draw observations 		<ul style="list-style-type: none"> • know the differences between things that are living, dead, and things that have never been alive • know 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 • know and name a variety of plants and animals in their habitats, including micro-habitats • know 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 		<ul style="list-style-type: none"> • know that living things can be grouped in a variety of ways • know how to use classification keys to help group, identify and name a variety of living things in their local and wider environment • know that environments can change and that this can sometimes pose dangers to living things 	<ul style="list-style-type: none"> • know the differences in the life cycles of a mammal, an amphibian, an insect and a bird • know the life process of reproduction in some plants and animals 	<ul style="list-style-type: none"> • know that living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals • know how to classifying plants and animals based on specific characteristics and give reasons for this

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Animals, including humans		<ul style="list-style-type: none"> • know the five senses and explore the natural world using them • <i>Know how to comment on and describe animals that I have seen</i> 	<ul style="list-style-type: none"> • know and name a variety of common animals including fish, amphibians, reptiles, birds and mammals • know and name a variety of common animals that are carnivores, herbivores and omnivores • know and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) • know, name, draw and label the basic parts of the human body • know the five senses and which part of the body is associated with each one 	<ul style="list-style-type: none"> • know that animals, including humans, have offspring which grow into adults • know the basic needs of animals, including humans, for survival (water, food and air) • know the importance for humans of exercise, eating the right amounts of different types of food, and hygiene 	<ul style="list-style-type: none"> • know 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 • know that humans and some other animals have skeletons and muscles for support, protection and movement 	<ul style="list-style-type: none"> • know the simple functions of the basic parts of the digestive system in humans • know the different types of teeth in humans and their simple function • know how to construct and interpret a variety of food chains, identifying producers, predators and prey 	<ul style="list-style-type: none"> • know the changes as humans develop to old age 	<ul style="list-style-type: none"> • know and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood • know the impact of diet, exercise, drugs and lifestyle on the way their bodies function • know the ways in which nutrients and water are transported within animals, including humans

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Plants		<ul style="list-style-type: none"> • Know how to plant seeds and care for growing plants • <i>Know how to comment on and describe plants that I have seen</i> 	<ul style="list-style-type: none"> • know and name a variety of common wild and garden plants, including deciduous and evergreen trees • know and describe the basic structure of a variety of common flowering plants, including trees 	<ul style="list-style-type: none"> • know how seeds and bulbs grow into mature plants • know that plants need water, light and a suitable temperature to grow and stay healthy 	<ul style="list-style-type: none"> • Know and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers • know 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 • know how water is transported within plants • know the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal 			

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Evolution and Inheritance								<ul style="list-style-type: none">• know that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago• know that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents• know how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution