

KNOWLEDGE PROGRESSION YEAR GROUP OVERVIEW – Science (Biology)

| Strand | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|---|---|--|--------|---|--------|--|---|---|---|
| All living things and their habitats | <ul style="list-style-type: none"> SBN.1 know the name of some living things that are within the immediate natural environment SBN.2 know how to observe plants, animals, natural and found objects SBN.3 know how to care for living things and the environment | <ul style="list-style-type: none"> SBR.1 know and describe similarities and differences in relation to living things SBR.2 know and describe the habitat of familiar woodland animals SBR.3 know and describe patterns and changes in nature SBR.4 know how human actions impact on the environment. | | <ul style="list-style-type: none"> SB2.1 know the differences between things that are living, dead and things that have never been alive by exploring and comparing SB2.2 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 SB2.3 know and name a variety of plants and animals in their habitats, including microhabitats (both familiar and less familiar habitats (e.g. woodland/ocean) SB2.4 know how animals obtain their food from plants and other animals, using food chains, and identify and name different sources of food | | <ul style="list-style-type: none"> SB4.1 know that living things can be grouped in a variety of ways SB4.2 know how to use classification keys in order to group, identify and name a variety of living things in their local and wider environment SB4.3 know that environments can change and that this can sometimes pose dangers to living things | <ul style="list-style-type: none"> SB5.1 know the differences in the life cycles of a mammal, amphibian, insect and bird SB5.2 know the life process of reproduction in some plants and animals | <ul style="list-style-type: none"> SB6.1 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 SB6.2 know how to classify plants and animals based on specific characteristics and give reasons for this | <ul style="list-style-type: none"> SB7.1 know how to construct food chains and food webs to investigate feeding relationships SB7.2 know how to classify within vertebrate and invertebrate groups SB7.3 know how to classify within the five different Kingdoms |

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| Animals, including humans | <ul style="list-style-type: none"> SBN.4 know how to explore natural materials, using their senses. SBN.5 know how to meet own care needs, (e.g. brushing teeth, using the toilet, washing and drying their hands thoroughly) SBN.6 know how to make healthy food and drink choices. SBN.7 know how to look after teeth SBN.8 know how exercise makes us feel SBN.9 know what an animal is and talk about the life cycle | <ul style="list-style-type: none"> SBR.5 know and talk about the different factors that support overall health and wellbeing, (e.g. regular physical activity, healthy eating, having a good sleep routine) SBR.6 know the importance of oral hygiene SBR.7 know how to describe what they see, hear and feel SBR.8 know, observe and discuss the changes that occur in the life cycle of an animal | <ul style="list-style-type: none"> SB1.1 know and name a range of animals by fish, amphibians, reptiles, birds and mammals SB1.2 know and name a variety of common animals by what they eat (carnivore, herbivore and omnivore) SB1.3 know the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) by describing and comparing SB1.4 know, name, draw and label basic parts of the human body which can be seen SB1.5 know the five senses and which part of the body is associated with each one | <ul style="list-style-type: none"> SB2.5 know that young animals, including humans, grow into adults SB2.6 know the basic needs of animals, including humans, for survival (water, food, air) SB2.7 know why exercise, a balanced diet and good hygiene are important for humans | <ul style="list-style-type: none"> SB3.1 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 SB3.2 know humans and some other animals have skeletons and muscles for support, protection and movement | <ul style="list-style-type: none"> SB4.4 know the simple functions of the basic parts of the digestive system in humans SB4.5 know the different types of teeth in humans and their simple functions SB4.6 know how to construct and interpret a variety of food chains, identifying producers, predators and prey | <ul style="list-style-type: none"> SB5.3 know the changes as humans develop to old age | <ul style="list-style-type: none"> SB6.3 know and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood SB6.4 know the impact of diet, exercise, drugs and lifestyle on the way their bodies function SB6.5 know the ways in which nutrients and water are transported in animals, including humans | <ul style="list-style-type: none"> SB7.4 know the different parts of animal and plant cells SB7.5 know the different kind of specialised cells, their functions and adaptations SB7.6 know the differences between sexual and asexual reproduction SB7.7 know how females get pregnant and the stages of embryo development |

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| Plants | <ul style="list-style-type: none"> SBN.10 know what a seed is and that it will turn into a plant SBN.12 know how to plant a seed | <ul style="list-style-type: none"> SBR.9 know how to care for a plant, including water and light | <ul style="list-style-type: none"> SB1.6 know and name a variety of common wild and garden plants, including deciduous and evergreen trees SB1.7 know the basic structure of a variety of common flowering plants (petals/flowers/fruit, stem, leaves, root, bulb seed), including trees (trunk, branches, leaves) and describe them | <ul style="list-style-type: none"> SB2.8 know how seeds and bulbs grow into plants by observing and describing SB2.9 know what plants need in order to grow and stay healthy (water, light & suitable temperature) | <ul style="list-style-type: none"> SB3.3 know and describe the function of different parts of flowering plants: roots, stems, trunk, leaves and flowers SB3.4 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 SB3.5 know how water is transported within plants through investigation SB3.6 know the part that flowers play in the life cycle of flowering plants including pollination, seed formation and seed dispersal | | | | <ul style="list-style-type: none"> SB7.8 know the equation for photosynthesis and using it to identify factors needed for plant growth |

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| Evolution and Inheritance | | | | | | | | <ul style="list-style-type: none"> • SB6.6 know that living things have changed over time and fossils provide information about living things that inhabited the Earth millions of years ago • SB6.7 know that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents • SB6.8 know how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution | <ul style="list-style-type: none"> • SB7.9 know the roles that genes and environments have on characteristics |

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