



Vertical progression – Understanding the World – The world - Science overview

Biology ELG -

- Explore the natural world around them, making observations and drawing pictures of animals and plants
- Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class
- Understand some important processes and changes in the natural world around them, including the seasons

Focus	Living things and their habitats	Plants	Animals, including humans
Reception	<ul style="list-style-type: none"> Describe what they see, hear & feel whilst outside Observational drawings of the natural world Discuss how to care for the living things & their habitats observe how flora & fauna behave differently as the seasons change Examine change over time Use correct terms e.g. chrysalis, pupa when observing life cycle of butterfly & ladybirds Express opinions on natural & built environments & opportunities to hear different points of view on the quality of the environment. Use words such as busy, quiet, pollution 	<ul style="list-style-type: none"> All plants need water, light and warmth to grow and survive A seed produces roots to allow water to get into the plant and shoots to produce leaves to collect the sunlight Extend vocabulary: blossom, buds, bulb, evergreen, deciduous Describe what they see, hear & feel whilst outside Name & describe some plants Draw pictures of plants Understand the effect of changing seasons on the natural world around them 	<ul style="list-style-type: none"> Shows some understanding that good practices with regard to exercise, eating, drinking water, sleeping & hygiene can contribute to good health Describe what they see, hear & feel Identify different parts of their body & animals Be able to show care and concern for living things Know the effects exercise has on their bodies Have some understanding of growth and change Talk about things they have observed including animals Observational drawings of animals
Year 1	<ul style="list-style-type: none"> Describe how habitats provide for the basic needs of different animals and plants and how they depend on each other Know that living things reproduce Identify and name a variety of plants and animals, including microhabitats Use a simple food chain Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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



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Chemistry & Physics ELG -

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- Understand some important processes and changes in the natural world around them, including the seasons

Focus	Materials
Nursery	<ul style="list-style-type: none"> • Use all their senses in hands-on exploration of natural materials • Explore collections of materials with similar and/or different properties • Talk about what they see, using a wide vocabulary • Explore how things work e.g. pulleys • Explore & talk about different forces they can feel e.g. stretch, snap, rigid, magnetic repulsion, water pushing up when pushing a boat under it • Talk about the differences between materials and changes they notice e.g. cooking, melting, shadows, floating & sinking • Characteristics of liquids & solids e.g. cooking eggs, melting chocolate
Reception	<ul style="list-style-type: none"> • Observe & interact with natural processes, such as ice melting, a sound causing a vibration, light travelling through transparent material, an object casting a shadow, a magnet attracting an object & a boat floating on water • Use vocabulary to name specific features of the natural world, both natural & man-made • Notice & discuss patterns around them e.g. the effect of seasons on flora & fauna
Year 1	<ul style="list-style-type: none"> • 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