

7.1 Progression in EYFS

	Development Matters & ELG
Nursery	<p>Communication and Language</p> <ul style="list-style-type: none"> • Use a wider range of vocabulary. • Understand 'why' questions, like: "Why do you think the caterpillar got so fat?" <p>Personal, Social, Emotional development</p> <ul style="list-style-type: none"> • Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen, or one which is suggested to them. <p>Physical Development</p> <ul style="list-style-type: none"> • Use one-handed tools and equipment, for example, making snips in paper with scissors. • Be increasingly independent in meeting their own care needs, e.g. brushing teeth, using the toilet, washing and drying their hands thoroughly. • Make healthy choices about food, drink, activity and toothbrushing. <p>Literacy</p> <ul style="list-style-type: none"> • Engage in extended conversations about stories, learning new vocabulary <p>Mathematics</p> <ul style="list-style-type: none"> • Describe a familiar route. • Discuss routes and locations, using words like 'in front of' and 'behind'. • Make comparisons between objects relating to size, length, weight and capacity <p>Understanding of the World</p> <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. • Plant seeds and care for growing plants. • Understand the key features of the life cycle of a plant and an animal. • Begin to understand the need to respect and care for the natural environment and all living things. • Explore and talk about different forces they can feel. • Talk about the differences between materials and changes they notice. <p>Expressive Arts and Design</p> <ul style="list-style-type: none"> • Explore different materials freely, in order to develop their ideas about how to use them and what to make. • Develop their own ideas and then decide which materials to use to express them. • Join different materials and explore different textures.
Reception	<p>Communication and Language</p> <ul style="list-style-type: none"> • Learn new vocabulary • Use new vocabulary through the day • Ask questions to find out more and to check they understand what has been said to them. • Describe events in some detail • Use talk to help work out problems and organise thinking and activities explain how things work and why they might happen. • Use new vocabulary in different contexts. • Engage in non-fiction books.

	<p>Physical Development</p> <ul style="list-style-type: none"> Know and talk about the different factors that support their overall health and wellbeing: regular physical activity, healthy eating, toothbrushing, sensible amounts of 'screen time', having a good sleep routine, being a safe pedestrian <p>Mathematics</p> <ul style="list-style-type: none"> Compare length, weight and capacity. <p>Understanding of the World</p> <ul style="list-style-type: none"> Explore the natural world around them. Describe what they see, hear and feel whilst outside. Recognise some environments that are different to the one in which they live. Understand the effect of changing seasons on the natural world around them.
ELG	<p>Communication and Language</p> <p>Listening, attention and understanding</p> <ul style="list-style-type: none"> Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to and during whole class discussions and small group interactions. Make comments about what they have heard and ask questions to clarify their understanding. <p>Speaking</p> <ul style="list-style-type: none"> Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate. <p>Personal, Social, Emotional development</p> <p>Managing self</p> <ul style="list-style-type: none"> Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. <p>Literacy</p> <p>Comprehension</p> <ul style="list-style-type: none"> Use and understand recently introduced vocabulary during discussions about stories, non-fiction, rhymes and poems and during role play. <p>Understanding of the World</p> <p>People, culture and communities</p> <ul style="list-style-type: none"> Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps. Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, nonfiction texts and (when appropriate) maps. <p>The natural world</p> <ul style="list-style-type: none"> 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 and changing states of matter

7.2 Progression in KS1 & KS2 – Animals including humans

Y1/2 Animals including humans	<ul style="list-style-type: none"> • Identify and name a variety of common animals that are birds, fish, amphibians, reptiles 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 (birds, fish, amphibians, reptiles and mammals, and including pets). • Identify, name draw and label the basic parts of the human body and say which parts of the body is associated with each sense. • 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.
LKS2 Animals including humans	<ul style="list-style-type: none"> • 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 animals have skeletons and muscles for support, protection and movement. • 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.
UKS2 Animals including humans	<ul style="list-style-type: none"> • Identify and name the main parts of the human circulatory system, and explain 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.
<u>Evolution and inheritance</u>	<ul style="list-style-type: none"> • 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 • Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

7.3 Progression in KS1 & KS2 – Earth and space

UKS2 Earth and space	<ul style="list-style-type: none">• Describe the movement of the Earth, and other planets, relative to the Sun in the solar system• Describe the movement of the Moon relative to the Earth• Describe the Sun, Earth and Moon as approximately spherical bodies• Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky
----------------------	---

7.4 Progression in KS1 & KS2 – Electricity

LKS2 Electricity	<ul style="list-style-type: none">• Identify common appliances that run on electricity• Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers• Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery• Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit• Recognise some common conductors and insulators, and associate metals with being good conductors.
UKS2 Electricity	<ul style="list-style-type: none">• Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit• Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches• Use recognised symbols when representing a simple circuit in a diagram.

7.5 Progression in KS1 & KS2 – Forces

LKS2 Forces and magnets	<ul style="list-style-type: none">• Compare how things move on different surfaces• Notice that some forces need contact between two objects, but magnetic forces can act at a distance• Observe how magnets attract or repel each other and attract some materials and not others• Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials• Describe magnets as having two poles• Predict whether two magnets will attract or repel each other, depending on which poles are facing.
UKS2 Forces	<ul style="list-style-type: none">• Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object• Identify the effects of air resistance, water resistance and friction, that act between moving surfaces• Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

7.6 Progression in KS1 & KS2 – Light

LKS2 Light	<ul style="list-style-type: none"> • Recognise that they need light in order to see things and that dark is the absence of light • Notice that light is reflected from surfaces • Recognise that light from the sun can be dangerous and that there are ways to protect their eyes • Recognise that shadows are formed when the light from a light source is blocked by a solid object • Find patterns in the way that the sizes of shadows change.
UKS2 Light	<ul style="list-style-type: none"> • Recognise that light appears to travel in straight lines • Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye • Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes • Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
UKS2 Earth and space	<ul style="list-style-type: none"> • Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky

7.7 Progression in KS1 & KS2 – Living things and their environment

Y1/2 Living things and their habitats	<ul style="list-style-type: none"> • 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.
LKS2 Living things and their habitats	<ul style="list-style-type: none"> • 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
UKS2 Living things and their habitats	<ul style="list-style-type: none"> • 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. • Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals

<u>Evolution and inheritance</u>	<ul style="list-style-type: none"> • Give reasons for classifying plants and animals based on specific characteristics • 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 • Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
----------------------------------	--

7.8 Progression in KS1 & KS2 – Materials

Y1/2 Everyday materials	<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, 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 physical properties. • Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses • Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
LKS2 Rocks, States of matter	<ul style="list-style-type: none"> • Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties • Describe in simple terms how fossils are formed when things that have lived are trapped within rock • Recognise that soils are made from rocks and organic matter. • Compare and group materials together, according to whether they are solids, liquids or gases • Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) • Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.
UKS2 Properties and changes of materials	<ul style="list-style-type: none"> • Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets • Understand that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution • Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating • Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic • Demonstrate that dissolving, mixing and changes of state are

	<p>reversible changes</p> <ul style="list-style-type: none"> • Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.
--	--

7.9 Progression in KS1 & KS2 – Plants

Y1/2 Plants	<ul style="list-style-type: none"> • Identify and name a variety of common plants, including garden plants, wild plants and trees, and those classified as deciduous and evergreen • Identify and describe the basic structure of a variety of common plants including roots, stem/trunk, leaves and flowers. • 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.
LKS2 Plants	<ul style="list-style-type: none"> • Identify and describe the functions of different parts of plants; roots, stem, leaves and flowers. • 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. • Investigate the ways in which water is transported within plants. • Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal
UKS2 <u>Evolution and inheritance</u>	<ul style="list-style-type: none"> • 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 • Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

7.10 Progression in KS1 & KS2 – Seasonal change

Y1/2 Seasonal change	<ul style="list-style-type: none"> • Observe and describe weather associated with the seasons. • Observe and describe how day length varies. • Observe changes across the four seasons.
UKS2 Earth and space	<ul style="list-style-type: none"> • Describe the movement of the Earth, and other planets, relative to the Sun in the solar system

7.11 Progression in KS1 & KS2 – Sound

LKS2 Sound	<ul style="list-style-type: none">• Identify how sounds are made, associating some of them with something vibrating• Recognise that vibrations from a sound travel through a medium to the ear.• Find patterns between the pitch of a sound and features of the object that produced it• Find patterns between the volume of a sound and the strength of the vibrations that produced it.• Recognise that sounds get fainter as the distance from the sound source increases.
------------	---