

Science Curriculum Overview 2025-26



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery Drawn from the Knowledge and skills progression (Natural World, Listening, Attention and Understanding and Speaking)		To begin to sort natural materials according to properties using new vocabulary such as, hard, soft, rough, smooth.		Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. To observe and talk about the lifecycle of a duck. Begin to understand the need to respect and care for the natural environment and all living things. To begin to understand 'why' questions.	and changes they notice. E.g. cooking and melting. To use a wider range of vocabulary that they have learnt throughout the year	Continue to talk about what they see, hear and feel using a growing vocabulary. Explore how things work. E.g. using gears, wind up toys, pulleys and cogs. Explore and talk about different forces they can feel. E.g. how the water pushes up when they try to push a plastic boat under it. Understand simple 'why' questions To begin to answer "I wonder" prompts during discussions, knowing that their ideas may differ from what others say.
Knowledge and skills progression (Natural World, Listening, Attention and Understanding	To respect and care for their immediate environment. Pupils will explore change in materials from one state to another by combining different ingredients to make their own playdough. To learn new vocabulary and use picture cue cards to talk about an object.	Autumn and record what they see through drawings. To begin to link changes in weather to the seasons by completing a Weather chart, observing and describing the daily weather patterns. To know that animals behave differently in different seasons e.g. gathering food, hibernating. To observe and learn vocabulary linked to their local natural environment and begin to describe simple	by observing Ice freezing and melting. They will describe and comment on what they observe. Describe what they see, hear and feel whilst outside. To explore the weather of other countries and discuss the type of clothes they would need to pack if they were to visit different places. To look at aerial views of the school setting and talk about what they can see, including buildings, open space,	To know about and recognise the signs of Spring. To know about features of the area in which they live and talk about how it varies from another location e.g. a farm or jungle. Develop vocabulary needed to name specific features of the world, both natural and made by people. To reflect different locations through drawing and other art work. To know about different habitats. To understand and answer how and why questions.	talk about changes. To know how to care for growing plants. To recognise, name and describe the life-cycle of a plant. (linked to peas and beans.) To reflect what they observe through drawings of growing plants. Describe what they see, hear and feel whilst outside with a wider range of vocabulary e.g. hard, soft, spiky, quiet, loud. To explore an object casting a shadow when making shadow puppets for traditional tales. To sow peas, beans and other plants. To know that some animals are nocturnal. To understand questions such as why and	To know about and recognise the signs of Summer. To know that some things in the world are man-made and some things are natural. To harvest grown fruit and vegetables and talk about the changes over time. To know some important processes and changes in the natural world including states of matter. (How a boat floats on water) Talk about the life cycle of plants and animals and what they need to survive. To know about features of the world and talk about how we can look after it. To explore recycling and the impact of plastic on the oceans. To talk about why things happen and how things work.

					things out and clarify understanding.	
					To answer 'why' questions linked to stories, non-fiction text and other areas of learning.	
Year 1	Park Explorers	My Body and My Senses	Everyday Materials	Animal Groups	Animal Diets	Seasonal Changes
HEP Curriculum	During this topic, the children will identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. They will identify and describe the basic structure of a variety of common flowering plants, including trees.	label the basic parts of the human body and say which part is associated with	Pupils will explore, name, discuss and raise and answer questions about everyday materials so that they become familiar with the names of materials and properties. Pupils should explore and experiment with a wide variety of materials including for example: brick, paper, fabrics, elastic, foil.	Children will identify and name a variety of common animals, including fish, amphibians, reptiles, birds, and mammals They will describe and compare the structure of a variety of common animals.		Children will observe changes across the four seasons. They will observe and describe weather associated with the seasons and how day length varies.
Year 2	Growing Plants	Uses of everyday materials	Animals Needs	Local Habitats	Habitats and Microhabitats	Food Chains and Heath
HEP Curriculum	plants grow. Pupils will be introduced to the requirements of plants for germination, growth and survival, as well	discuss the uses of different everyday materials so that they become familiar with how some materials are used for	animals for survival, as well as the importance of exercise and nutrition for humans. They will also be introduced to the processes of reproduction and growth in animals. The focus at this stage will be on questions that help pupils to recognise growth.	'habitat'. They should raise and answer questions about the local environment that help them to identify and study a	importance of biodiversity and what an	Children will create simple food chains. They will learn about human health and the importance of a balanced diet.
Year 3	<u>Plants</u>	Rocks	<u>Light</u>	Animals, including humans	Forces and Magnets	Bee project
ulum ulum	Building on the previous learning with plants in KS1, the pupils will now be introduced to the relationship between structure and function: the idea that every part has a job to do. They will explore questions that focus on the role of the roots and stem in nutrition and support, leaves for nutrition and flowers for reproduction.	In this topic, pupils will explore different kinds of rocks and soils,	Pupils will explore what happens when light reflects off a mirror or other reflective surfaces, including playing mirror games to help them to answer questions about how light behaves. They will also look for, and measure, shadows, and find out how they are formed and what might cause the shadows to change.	Pupils should continue to learn about the importance of nutrition and should be introduced to the main body parts associated with the skeleton and muscles, finding out how different parts of the body have special functions.	magnetic forces can act without direct	A look at the relationship between bees and their environment; importance in pollination, food, light and earth's magnetic field.

Year 4	States of Matter	Animals, including humans	Sound	Living things and their habitats	Electricity	The History of Science
HEP Curric ulum	Pupils will explore a variety of everyday materials and develop simple descriptions of the states of matter. Pupils will observe water as a solid, a liquid and a gas and will also observe the changes to water when it is heated or cooled.	In this topic, the pupils will build on work from Year 1 on human body parts. This time they will be introduced to the main body parts associated with the digestive system, for example, mouth, tongue, teeth, oesophagus, stomach and small and large intestine and explore questions that help them to understand their special functions.	During this topic, pupils will get the chance to explore and identify the way sound is made through vibration in a range of different musical instruments from around the world; and find out how the pitch and volume of sounds can be changed in a variety of ways.	year. Pupils will explore possible ways of	1	Pupils learn about the history of science through a range of different investigation that cover topics from Year 3 and 4. This unit builds on topics such as plants, light and materials while crossing over with subjects such as history, science and art
Year 5 HEP Curric ulum	In this topic, the pupils will build a more systematic understanding of materials by exploring and comparing the properties of a broad range of materials. They will explore reversible changes, including, evaporating, filtering, sieving, melting and dissolving, recognising that melting and dissolving are different processes. They will find out about how chemists create new materials.	Animals, including humans Pupils will learn about the stages in the growth and development of humans. They will also learn about the changes that humans experience during puberty.	During this topic, pupils can explore falling objects and raise questions about the effects of air resistance. They should experience forces that make things begin to move, get faster or slow down. Pupils should explore the effects of friction on movement and find out how it slows or stops moving objects. Pupils will also explore the effects of levers, pulleys and simple machines on movement.	Living things and their habitats Pupils will study and raise questions about their local environment throughout the year. They will observe life-cycle changes in a variety of living things, for example, plants in the vegetable garden or flower border, and animals in the local environment. They may find out about the work of naturalists and animal behaviourists.	Pupils will be introduced to a model of the Sun and Earth that enables them to explain day and night. Pupils will learn that the Sun is a star at the centre of our solar system and that it has eight planets. They should understand that a moon is a celestial body that orbits a planet. Pupils will also find out about the way that ideas about the solar system have developed.	Pupils will learn about how scientists use the scientific method to get reliable data and make new exciting discoveries. Placing the focused Scientific Methounit at the end of Year 5 nicely scaffolds this increasing autonomy expected in Year 6. Students culminate Year 5 by formalising term standards and analytical practices th have progressively acquired over Lower Key Stage 2.
Year 6 HEP Curric ulum	Pupils should build on their learning from years 3 and 4 about the main body parts and internal organs (skeletal, muscular and digestive system) to explore and answer questions that help them to understand how the circulatory system enables the body to function. Pupils should learn how to keep their bodies healthy and how their bodies might be damaged – including how	Building on what they learned about fossils in the topic on rocks in year 3, pupils will now find out more about how living things on earth have changed over time. They should be introduced to the idea that characteristics are passed from parents to their offspring. They should also appreciate that variation in offspring over time can make animals more or less able to survive in particular environments.	Building on their work in year 4, pupils will construct simple series circuits, to help them to answer questions about what happens when they try different components, for example, switches, bulbs, buzzers and motors. They should learn how to represent a simple circuit in a diagram using recognised symbols.	Light During this topic, pupils will build on the work on light in year 3, exploring the way that light behaves, including light sources, reflection and shadows. They will discuss what happens and make predictions.	Living things and their Habitats Pupils should build on their learning about grouping living things in Year 4 by looking at the classification system in more detail. They will be introduced to groupings and how plants and animals	Preparing for secondary science This unit provides a transition unit for Ye 6 pupils as they prepare for starting in secondary science. They will start to lea about equipment and methods that the will be using in Year 7 and beyond.

some drugs and other substances can	Pupils will describe how living things are
be harmful to the human body.	classified into broad groups according to
	common observable characteristics and
	based on similarities and differences,
	including micro- organisms, plants and
	animals.
	Pupils will give reasons for classifying
	plants and animals based on specific
	characteristics.