

Science Endpoints EYFS and KS1

EYFS

How Does my World Grow and Change?



Me and My World

By the end of the autumn term, children will be able to explore and describe the outdoor environment using their senses, noticing seasonal changes and talking about what they see, hear and feel. They will begin to recognise and name some plants and animals, observe changes in the weather, and ask questions about the world around them using simple scientific vocabulary.



Change and Growth

By the end of the spring term, children in Nursery will be able to notice and talk about simple changes in the world around them, such as growth, weather and materials, and explore these changes through hands-on sensory experiences



Exploring Beyond

By the end of Reception, children will be able to explore, observe and describe the natural world around them using their senses. They will notice and talk about changes in seasons, weather, living things and their environments, and begin to recognise different habitats and natural processes. Children will ask questions, investigate their ideas and use their observations to explain what they have discovered in simple and developing detail.

Year 1

What makes animals, plants, and materials special?

Animals Including Humans

By the end of this unit, pupils will be able to identify and name common animals, describe their basic features and group them according to their characteristics.



Seasons

By the end of this unit, pupils will be able to identify and name common animals, describe their basic features and group them according to their characteristics.



Animals Including Humans

By the end of this unit, pupils will be able to identify, name and label basic body parts and recognise that humans use their eyes, ears, nose, mouth and skin for the five senses: sight, hearing, smell, taste and touch. Pupils will describe how senses help humans stay safe and learn about the world, compare similarities and differences between humans and other animals, and use simple scientific vocabulary to talk about observations and investigations.



Materials

By the end of this unit, pupils will be able to identify and describe everyday materials and explain why different materials are suitable for different objects.



Plants

By the end of this unit, pupils will be able to identify and name common plants and describe the basic parts of flowering plants and trees.



End of Year

Pupils can identify and describe basic features of animals, plants, the human body and senses, seasonal changes, and everyday materials, forming the foundational knowledge needed to understand the natural and physical world.

Year 2

How do living things survive and grow?

Animals Including Humans

By the end of this unit, pupils will be able to explain the basic needs of animals, including humans, and describe how humans grow and stay healthy.



Materials

By the end of this unit, pupils will be able to identify, compare and explain the uses of different materials and describe how materials can be changed by squashing, bending, twisting and stretching.



Living Things and their Habitats

By the end of this unit, pupils will be able to identify and describe living things, their habitats and simple food chains, explaining how animals and plants depend on each other and their environment to survive.



Plants

By the end of this unit, pupils will be able to identify and describe living things, their habitats and simple food chains, explaining how animals and plants depend on each other and their environment to survive.



End of Year

Pupils can explain the basic needs and life processes of living things, compare habitats, and identify and classify materials based on their properties to understand how living and non-living things interact in different environments.

Science Endpoints KS2

Year 3

How do forces, light, rocks, and living things shape our world?

Rocks

By the end of this unit, pupils will be able to identify and compare different types of rocks, describe how fossils are formed and explain how soils are made.



Animals Including Humans

By the end of this unit, pupils will be able to explain how humans and animals need nutrition, skeletons and muscles to survive, grow and stay healthy.



Plants

By the end of this unit, pupils will be able to identify and describe the parts of flowering plants and explain how plants grow, survive and reproduce.



Light

By the end of this unit, pupils will be able to explain how light helps us see, describe how shadows are formed and investigate ways light can be reflected and blocked.



Forces and Magnets

By the end of this unit, pupils will be able to explain how forces and magnets affect objects and investigate how magnetic materials interact.



End of Year

Pupils can explain how rocks, forces and magnets, light, and living systems (including nutrition, skeletons, muscles, and plant life cycles) function, and begin to make connections between these areas to understand how they shape the world around them.

Year 4

How do energy and materials move through our world?

Animals Including Humans

By the end of this unit, pupils will be able to describe the function of the digestive system in humans and animals and identify different types of teeth and their roles.



Materials

By the end of this unit, pupils will be able to compare and classify materials based on their properties and explain how materials change state through heating and cooling.



Electricity

By the end of this unit, pupils will be able to construct and explain simple electrical circuits, identifying the components needed for a circuit to work and recognising how switches control the flow of electricity.



Sound

By the end of this unit, pupils will be able to group and classify living things based on their observable characteristics and explain how environments can affect living things and habitats.



Living Things and Habitats

By the end of this unit, pupils will be able to describe the stages of human growth and development and explain the changes that occur as humans age.



End of Year

Pupils can explain how matter changes, how energy (including sound and electricity) works, and how living things are structured and connected through systems such as digestion, classification, and habitats.

Year 5

How do the forces of nature, space, and materials affect life on Earth?

Earth and Space

By the end of this unit, pupils will be able to describe the movement of the Earth, Moon and planets in space and explain how these movements cause day and night and the changing appearance of the Moon.



Forces

By the end of this unit, pupils will be able to explain how different forces act on objects and investigate the effects of gravity, friction, air resistance and water resistance.



Materials

By the end of this unit, pupils will be able to identify and compare the properties of different materials and explain how materials can change state or be used for particular purposes based on their properties.



Living Things and Habitats

By the end of this unit, pupils will be able to describe the life cycles of different living things and explain the processes of reproduction and growth in plants and animals.



Animals Including Humans

By the end of this unit, pupils will be able to describe the stages of human growth and development and explain the changes that occur as humans age.



End of Year

Pupils can explain how forces, space, materials, living things, and human development are interconnected, and how scientific concepts such as gravity, planetary movement, material change, life cycles, and growth help us understand the world and our place within it.

Year 6

How has life on Earth evolved and how do humans affect it?

Electricity

By the end of this unit, pupils will be able to construct and represent complex electrical circuits using symbols and explain how changes in a circuit affect the brightness of bulbs or the speed of motors.



Light

By the end of this unit, pupils will be able to explain how light travels and how it enables us to see objects, using scientific ideas about reflection, refraction and shadows.



Evolution and Inheritance

By the end of this unit, pupils will be able to explain how living things have changed over time through evolution and describe how characteristics are inherited and adapted to help organisms survive in their environments.



Animals Including Humans

By the end of this unit, pupils will be able to explain the functions of the circulatory system and describe how diet, exercise and lifestyle choices affect the human body.



Living Things and Habitats

By the end of this unit, pupils will be able to classify living things using scientific systems and explain how living organisms are grouped based on shared characteristics.



End of Year

Pupils can explain how evolution and inheritance shape living things, how the human body and electrical systems function, how light behaves, and how classification, microorganisms, and human impact help us understand and evaluate the natural world and its systems.