



SCIENCE CURRICULUM

OUR VISION

NURTURING AND INSPIRING SUCCESS IN EVERY CHILD

INTENT

Children will be taught to work scientifically using a range of enquiry types and to be able to decide for themselves which type of enquiry to use in order to tackle the question they are investigating. Children are exposed to the following types of enquiry:

Exploring, Observing over time, Sorting, Classifying and Identifying, Fair Test, Pattern Seeking, Problem Solving and Researching and Analysing Secondary Sources.

Children will be taught to:

- Name and locate parts of the human body (EYFS), including those related to the senses (Year1) and describe the importance of exercise, a balanced diet and hygiene for humans (Year2)
- Describe the basic needs of animals for survival (EYFS) and the main changes as young animals, including humans, grow into adults (year 2)
- Describe the basic needs of plants for survival (EYFS) and the impact of changing these and the main changes as seeds and bulbs grow into mature plants (Year 2)
- Identify whether things are alive, dead or have never lived (Year 2)
- Describe and compare the observable features of animals from a range of groups (Year1)
- Group animals according to what they eat (Year1), describe how animals get their food from other animals and/or from plants, and use simple food chain chains to describe these relationships (Year2)
- Describe seasonal changes (EYFS at a basic level) and (Year1)
- Name different plant and animals (EYFS and Year 1) and describe how they are suited to different habitats (Year2)
- Distinguish objects from materials, describe their properties, identify and group everyday materials (Year1) and compare their suitability for different uses (Year2)

IMPLEMENTATION

All our curriculum is shaped by our school vision which aims to enable all children, regardless of their gender, sexual orientation, religion, disability, ethnicity, special needs, or background to achieve their potential. Each learner is unique and has a preferred learning style which teachers understand. Above all our philosophy is to make learning fun.

The following knowledge and skills are delivered through the Hamilton Scheme of work supplemented by other schemes of work. We are an accredited Story Telling school and, as such, the children's learning is enhanced with stories. Extra support is given, if required, to ensure that all children access this curriculum.

EYFS Autumn Term 1 All About me Naming their senses and using them in different activities Are you all the same? Creating a family tree Looking at different parts of the body Discussing different weather and seasons What do we need to be healthy?	EYFS Autumn Term 2 The World Around Me What does the world look like? Discussing our 5 senses Handa's Surprise and Handa's Hen, looking at different fruits and animals from Africa
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EYFS Spring Term1 People who Help Us Melting and Freezing Discussing people who help us look after our bodies	EYFS Spring Term 2 Growing, Lifecycles, Minibeasts Fruits and vegetables Growing their own seeds Floating and Sinking Baking Minibeast hunt Growing their own butterflies, lifecycles Weather forecasts
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EYFS Summer Term 1 Traditional Tales	EYFS Summer Term 2 Animals and Habitats
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Healthy and Unhealthy Foods The 3 Little Pigs and materials The Gingerbread Man and water Bread and mould	Different pets and habitats Different climates for different animals Where does food grow? What do animals need to be healthy? Predators and prey Herbivores and carnivores Nocturnal animals Extinct animals Making Pizzas, changes over time
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Year 1 Autumn Term 1 Year 1 recall learning about their five senses, what we need to be healthy, weather forecasts and different climates for different animals in EYFS and build on this learning with the following topics. Animals including Humans: Ourselves Seasonal Changes	Year 1 Autumn Term 2 Year 1 recall EYFS learning about different pets and habitats, weather forecasts and different climates for different animals and build on this learning with the following topics Animals and Humans: Our Pets Seasonal Changes
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Year 1 Spring Term 1 Year 1 recall learning about growing their own seeds, weather forecasts, floating and sinking, melting and freezing in EYFS and they build on this learning with the following topics: Plants: Grow beans and keep a diary Seasonal changes Everyday Materials	Year 1 Spring Term 2 Year 1 recall learning about discussing different weather and seasons, floating and sinking, baking and melting and freezing and build on this learning with the following topics: Everyday Materials: Marvellous Materials Seasonal changes
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Year 1

Summer term 1

Year 1 children recall their learning in EYFS, different climates for different animals and melting and freezing and build on their learning with the following topics:

Seasonal changes
Everyday Materials

Year 1

Summer term 2

Year 1 children recall their learning in EYFS, floating and sinking, melting and freezing and baking and build on their learning with the following topic:

Everyday Materials

Year 2

Autumn term 1

Year 2 children recall growing their own Butterflies and seeds in EYFS and growing their own beans and pets in Year 1 and build on this learning with the following topics:

Animal Life Cycles:
Healthy Animals

Year 2

Autumn 2

Children in Year 2 recall their learning in EYFS ,Sinking and Floating, Melting and Freezing and Baking and in Year 1 Everyday Materials and build on this learning with the following topics:

Uses of Everyday Materials:
Materials Matter
Uses of Everyday materials:
Squash, bend twist and stretch

Year 2

Spring term 1

Year 2 children recall their learning in EYFS, Growing their own Butterflies, Different pets and Habitats and in Year 1 Animals including Humans and Our Pets and build on this learning with the following topics:

Animal Life Cycles:
Habitats

Year 2

Spring term 2

Year 2 children recall their learning in EYFS Growing their own Butterflies, Different Pets and Habitats and in Year 1 Animals and Humans and Our Pets and build on this learning with the following topics:

Animal Life Cycles:
Habitats

Year 2

Summer term 1

Year 2 children recall their learning in EYFS, Growing their own seeds, Where does food grow? Healthy and Unhealthy Foods, What do we need to be healthy and in Year 1 Growing our own beans and build on this learning with the following topics:

Plants: Ready, Steady, Grow!

Year 2

Summer term 2

Year 2 children recall their learning in EYFS, Animals and Habitats, Growing their own Seeds, Different pets and habitats and in Year 1 Our Pets, Growing our own beans and build on this learning with the following topic:

Habitats: Gardens and Allotments

IMPACT

The children are curious about the world around them and are encouraged to ask questions about what they notice. They have begun to use simple scientific language to talk about what they have found out and communicate their ideas to a range of audiences in a variety of ways. The children's learning is enhanced with hands on activities eg growing their own beans in Year 1 and growing butterflies in Year 1. Every week each class grows plants in their raised beds and every other Easter the school looks after chickens' eggs and watch them hatch. The children are prepared for, and look forward to, their next stage of learning.