



Science Subject Curriculum

Nursery

	Autumn term	Spring Term	Summer term
Before the half term break	Name members of their immediate family Name and describe people who are familiar to them.	Recognise different environments	Explore and talk about the natural world around them.
After the half term break	Observe and explore the natural world around them.	Identify changing seasons on the natural world around them.	Describe what they see, hear and feel.

Reception

	Autumn term	Spring Term	Summer term
Before the half term break	Talk about members of their immediate family and community. Name and describe people who are familiar to them.	Recognise some environments that are different to the one in which they live	Draw information from a simple map. Explore the natural world around them.
After the half term break	Explore the natural world around them.	Understand the effect of changing seasons on the natural world around them.	Describe what they see, hear and feel whilst outside.

Year 1

	Autumn term	Spring Term	Summer term
Before the half term break	Distinguish between an object and the material from which it is made.	Group different materials according to physical properties: hard/soft; rough/smooth, waterproof/not waterproof	Name some basic common animals and know that animals are carnivores, herbivores and omnivores.
After the half term break	Know the different weather and day length associated with the different seasons	Name basic parts of the human body.	Describe the basic structure of a plant using scientific language and name some plants

Year 2

	Autumn term	Spring Term	Summer term
Before the half term break	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.	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.
After the half term break	Observe changes across the four seasons.	Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.

	Observe and describe weather associated with the seasons and how day length varies.	Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Identify and describe the basic structure of a variety of common flowering plants, including trees.
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Year 3

	Autumn term	Spring Term	Summer term
Before the half term break	<p>Know that we need light to see and that it is dark when there is no light.</p> <p>Know some light sources</p> <p>Know that a shadow is when light is blocked</p>	<p>Know that forces are either pushes or pulls</p> <p>Know that magnets attract magnetic materials (such as iron, nickel, and some alloys like stainless steel.)</p> <p>Know that magnets have two poles</p>	<p>Know that rocks can be compared and grouped based on their appearance and simple physical properties.</p> <p>Know that rock is a naturally occurring material</p> <p>Know that some rocks contain fossils.</p>
After the half term break	<p>Know that animals (including humans) cannot make their own food</p> <p>Know that humans and some animals have skeletons and muscles</p>	<p>Know the role of roots (anchor), stem (support/ carry water), leaves (produce food), and flowers (aid in reproduction/make more).</p>	<p>Know how to ask a scientific question</p> <p>Know some considerations when conducting fair tests</p> <p>Know how to make accurate observations using various equipment</p> <p>Record and present data</p>

Year 4

	Autumn term	Spring Term	Summer term
Before the half term break	<p>Know that habitat environments can change</p>	<p>Know that teeth, stomach and intestines are involved in breaking down our food</p> <p>Know that all food chains start with plants (producers)</p>	<p>Know that living things can be sorted in different ways</p>
After the half term break	<p>Know that to make a complete electrical circuit you need a battery, bulb and a wire in an unbroken circle</p>	<p>Know that a sound is created by vibrations which travel to our ears.</p>	<p>Know that materials can be classified as a solid, liquid or gas and that these can change state</p>