



Science Long-term Overview 12R

12R	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<u>All about me</u>	<u>Seasonal Changes</u>	<u>Exploring Everyday Materials (1)</u>	<u>All About Animals</u>	<u>Exploring Everyday Materials (2)</u>	<u>Plants</u>
Year 2	<u>Animals - Growth</u>	<u>Living Things and their Habitats</u>	<u>Use of everyday materials</u>	<u>Lifecycles</u>	<u>Living Things and Habitats Around the World</u>	<u>Plants</u>

	Autumn 1	Autumn 2
Year 1	<p><u>All about me</u></p> <ul style="list-style-type: none"> • Discover the basic parts of the human body • Learn about eyes and sight • Learn about ears and hearing • Explore the tongue and taste • Explore the sense of touch • Discover how your nose smells 	<p><u>Seasonal Changes</u></p> <ul style="list-style-type: none"> • Understand there are four seasons • Understand the changes that take place in autumn • Understand the changes that take place in winter • Understand the changes that take place in spring • Understand the changes that take place in summer • Investigate how you can measure rainfall
Year 2	<p><u>Animals – Growth</u></p> <ul style="list-style-type: none"> • Describe the needs of animals for survival • Describe the needs of humans for survival • Explore the important of eating the right food • Describe what a healthy balanced diet looks like • Investigate the impact of exercise on our bodies • Investigate the importance of hygiene 	<p><u>Living Things and their Habitats</u></p> <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 and name a variety of plants and animals in a microhabitat • Design a suitable microhabitat where living things could survive • Find out what animals eat to survive in their habitats • Understand a food chain • Understand the journey food makes from the farm to the supermarket



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	Spring 1	Spring 2
Year 1	<p><u>Exploring Everyday Materials (1)</u></p> <ul style="list-style-type: none"> • Identify and name a variety of everyday materials • Distinguish between an object and the material it is made from • Describe the properties of everyday materials • Identify objects that are natural and those that are manmade • Predict and identify if an object will float or sink • Explore which materials are best for different objects 	<p><u>All About Animals</u></p> <ul style="list-style-type: none"> • Discover animal families • Learn about the differences between mammals and birds • Learn about the differences between amphibians, reptiles and fish • Discover the types of food living things eat • Explore the difference between wild animals and pets • Explain the characteristics of an animal
Year 2	<p><u>Use of everyday materials</u></p> <ul style="list-style-type: none"> • Identify different materials and their uses • Understand how to select the right materials to build a bridge • Explore the test the stretchiness of materials • Understand that materials can change their shape by twisting, bending, squashing and stretching • Find out about Charles Macintosh and explore how materials are suitable for different purposes • Discover which materials change shape when making a road with John McAdam 	<p><u>Lifecycles</u></p> <ul style="list-style-type: none"> • Order the stages of the human lifecycle • Describe the stages of the human lifecycle • Identify the offspring and parent of an animal • Explore the lifecycle of a chicken • Describe the lifecycle of a butterfly • Explore the lifecycle of a frog

	Summer 1	Summer 2
Year 1	<p><u>Exploring Everyday Materials (2)</u></p> <ul style="list-style-type: none"> • Build a structure strong enough to withstand wind • Build a waterproof structure • Understand the properties of glass and its uses 	<p><u>Plants</u></p> <ul style="list-style-type: none"> • Understand that seeds grow into plants • Identify the basic parts of a plant and tree



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	<ul style="list-style-type: none">• Understand that materials are used to create a variety of furniture• Explore a variety of fabrics and understand their different properties• Explain the uses of materials and why they are suitable	<ul style="list-style-type: none">• Understand that different plants can grow in the same environment• Know the difference between deciduous and evergreen trees• Know the difference between deciduous and evergreen trees• Know the difference between deciduous and evergreen trees
Year 2	<p><u>Living Things and Habitats Around the World</u></p> <ul style="list-style-type: none">• Learn about habitats• Appreciate that environments are constantly changing• Explore the rainforest and its problems• Describe life in the ocean• Discover the Arctic and Antarctic habitat• Create a model of a habitat	<p><u>Plants</u></p> <ul style="list-style-type: none">• Know the difference between seeds and bulbs• Design an experiment to find out what plants need to grow• Describe what plants need to grow and stay healthy• Describe the lifecycle of a plant• Observe and record the growth of plants over time• Understand that plants adapt to suit their environment