



Ferryhill Station Science Long Term Plan

	Autumn		Spring		Summer	
EYFS	<p>Children know about similarities and differences in relation to places, objects, materials and living things.            Children talk about the features of their own immediate environment and how environments might vary from one another.            Children make observations of animals and plants and explain why some things occur, and talk about changes.            Children know about the similarities and differences between themselves and others.</p>		<p>Children use tools to effect changes to different materials.            Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.            Children can explore what happens when they mix colours together and experiment different ways to create different textures.</p>		<p>Children know about similarities and differences in relation to places, objects, materials and living things.            Children talk about the features of their own immediate environment and how environments might vary from one another.            Children can talk about the weather and changes in the weather at different times of the year.</p>	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1 / 2 A	<p><b>Living things and their habitat</b>            Identify a common selection of animals            Identify and name omnivore, carnivores and herbivores            Label and name basic structure of animals including humans</p>	<p><b>Materials</b>            Identify and compare the suitability of a variety of everyday materials</p>	<p><b>Living things and their habitat</b>            Explore and compare the difference between things that are living, dead, and things that have never been alive            Habitats and micro-habitats            Simple food chains</p>		<p><b>Plants</b>            identify and name a variety of common wild and garden plants, including deciduous and evergreen trees            Identify and describe the basic structure of a plant</p>	
Year 1 / 2 B	<p><b>Animals, including humans</b>            Notice that animals, including humans, produce offspring            The basic needs of animals            The importance of exercise and nutrition</p>		<p><b>Materials</b>            Identify and name a variety of everyday materials,            Describe the properties            Group materials based on their properties</p>		<p><b>Plants</b>            Observe how seeds grow into plants</p>	<p><b>Seasons</b>            Observe the changes across the Four seasons            Observe and describe weather associated with the seasons and how day length varies</p>



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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3 / 4 A	<b>Animals, including humans</b>  Nutrition skeletons		<b>Sound</b> How sounds are made Patterns between pitch and volume	<b>Light</b> How shadows are formed Absence of light Light from the sun	<b>Forces and Magnets</b> Magnetic force Magnetic materials Magnetic poles	<b>Everyday Materials</b> Rocks- appearance and physical appearance Fossils
Year 3 / 4 B	<b>States of Matter</b> Solids, liquids and gases Effect of temperature on materials The water cycle		<b>Living things and their habitats</b> Classification Changes to environment and the effect to living things	<b>Plants</b> Identify and describe functions of a flowering plant Transportation of water Life cycle of flowering plants	<b>Animals, including humans</b> Digestive system Teeth Food chains	<b>Electricity</b> Electrical circuits Recognise some common conductors and insulators
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5/ 6 A	<b>Living things and their habitat</b> Classification of plants and animals		<b>Electricity</b> Symbols in a circuit Compare and give reasons for variations in how components function		<b>Light</b> How light travels	<b>Evolution and inheritance</b> Recognise that living things have changed and adapted over time.
Year 5/ 6 B	<b>Animals including humans</b> Changes in age Name and identify the parts of the circulatory system How water and nutrients are transported compare and give reasons for variations in how components function The effects of exercise and nutrition	<b>Properties and change of materials</b> Group materials based on their properties Demonstrate that dissolving, mixing and changes of state are reversible	<b>Forces</b> Gravity Resistance	<b>Earth and Space</b> Movement of the Earth and other planets relative to the Sun. Movement of the moon, relative to the Earth		<b>Living things and their habitat</b> Life cycles Reproduction



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