



Shiremoor Primary School Science Curriculum

Year group	Autumn	Spring	Summer
EYFS	<p><u>The Natural World</u></p> <p>In our EYFS, science is taught through continuous provision by encouraging children to explore, question, and investigate the world around them in hands-on, meaningful ways. Areas such as the water tray, sand pit, outdoor garden, and investigation stations are rich in opportunities for observing changes, testing ideas, and developing early scientific thinking. Children may explore floating and sinking, light and shadows, plant growth, or materials through play and experimentation. Open-ended questions and adult-led conversations help build vocabulary and encourage curiosity, while seasonal and nature-based enhancements support understanding of the natural world. This approach allows children to develop observation, prediction, and reasoning skills in a playful, engaging context.</p>		
Year Nursery	<p>Animals including humans Learn about farm animals and parts of the human body</p> <p>Everyday materials Exploring materials and textures</p>	<p>Light and shadows Explore light and dark (day and night), shadows</p> <p>Forces and magnets Explore movement and forces through play with wheeled toys and simple ramps</p>	<p>Plants and living things Observe growth of plants, humans and animals(life cycle of a butterfly); plant seeds and care for them</p> <p>Properties of materials Explore properties of water and sand;</p> <p>Living things and their habitats Explore creatures found at the seaside</p>
Year Reception	<p>Animals including humans Learn about farm, woodland animals and parts of the human body</p> <p>Everyday materials Investigate different materials and their properties</p>	<p>Light and shadows Learn about the sun, moon, and stars; understand day/night cycle and shadows</p> <p>Forces Investigate how different vehicles move and forces (push/pull)</p>	<p>Plants and living things Study plants, humans and animal life cycles (lifecycle of a bird);</p> <p>Properties of materials Understand that some objects float and some sink based on properties.</p> <p>Living things and their habitats Investigate creatures found at the seaside</p>
<p>Seasonal change</p> <p>I know how to describe what I see, hear, smell, taste and feel through the seasons and weather changes.</p>			



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Year 1	Animals including humans Learn to identify and classify animals by type and diet, and label body parts with linked senses.	Everyday Materials Identify materials and describe their properties.	Plants Recognise and name common plants and trees and understand their basic parts.
	Seasonal Change Observe seasonal weather patterns and day length variations.	Seasonal Change Observe seasonal weather patterns and day length variations.	Seasonal Change Observe seasonal weather patterns and day length variations.
Year 2	Everyday material Explore material uses and how their shapes change through forces.	Living things and their habitats Distinguish between living, dead, and non-living things, and explore food chains and habitats.	Plants Observe how plants grow and what affects their growth.
	Animals including humans Understand life cycles and basic human needs, including health and hygiene.		Everyday material Explore material uses and how their shapes change through forces.
Year 3	Animals including humans Learn about nutrition, skeletons, and muscles for movement and support.	Rocks Compare rocks, understand fossil formation, and learn about soil composition.	Plants Study plant parts and their roles in growth and reproduction.
		Forces and magnets Investigate motion on surfaces and magnetic forces.	Light Understand light sources, reflection, and shadow formation.
Year 4	States of matter Explore solids, liquids, gases, and changes of state, including the water cycle.	Animals including humans Learn about digestion, teeth types, and food chains.	Electricity Build simple circuits and understand components and conductors.
	Living things and their habitats Classify organisms and study environmental impacts.	Electricity Build simple circuits and understand components and conductors.	Sound Discover how sound is produced and travels, and what affects pitch and volume.



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Year 5	Living things and their habitats Explore plant and animal reproduction.	Properties and changes of materials Investigate material properties and reversible/irreversible changes.	Forces Understand different forces and how tools can magnify them.
	Earth and space Study gravity, resistance forces, and mechanisms.	Forces Understand different forces and how tools can magnify them.	Animals including humans Describe human development from birth to old age.
Year 6	Living things and their habitats Classify organisms using characteristics.	Evolution and inheritance Explore fossil evidence, variation, and natural selection.	Animals including humans Study the circulatory system and the impact of lifestyle on body function.
	Light Learn how light travels and forms shadows.	Electricity Examine circuit function and component symbols.	