Science: Curriculum Intent

Here at Shustoke, our intention is that every pupil, irrelevant of needs, develops such a passion for Science that they harness their natural excitement and curiosity and in turn this inspires them to pursue scientific enquiry. We wish that every child is excited by scientific ideas and wants to learn to explain and analyse phenomena, make predictions and solve problems.

Through Science, we aim to support this philosophy by:
• investigating key questions
• learning how science works
• discovering why science matters in the world
• enabling children to build up a body of key knowledge and an understanding of key scientific concepts through investigation
• enabling children to apply their scientific understanding to rationalise and explain new phenomena
• developing a sense of excitement and curiosity about science and natural phenomena.

At our school we know that children learn best when the curriculum is well sequenced to enable revisiting of core skills, knowledge and understanding to deepen conceptual awareness before demanding application across the whole curriculum.
Our Long Term Plans outline how the key skills, knowledge and understanding are developed, revisited, assessed and built upon from the learning in EYFS then during Year 1 to Year 6. Our Science curriculum meets the requirements of the EYFS goals and the NC programmes of Study.

Our high quality Science curriculum allows pupils to gain factual knowledge through the three key areas of biology, chemistry and physics. Through our Science curriculum, our pupils acquire a range of scientific skills, embed vocabulary and build upon prior knowledge.

Throughout the school, pupils will enjoy a range of Science units of work:

Year Group	AUTUMN	SPRING	SUMMER
EYFS	All about Me	Amazing Animals	Materials
Y1	Animals including humans	Materials	Plants
Y2	Materials	Animals including humans Plants	Living Things and their habitats
Y3	Rocks Forces and Magnets	Animals including Humans	Plants Light
Y4	Living things and their habitats States of Matter	Animals including humans	Sound Electricity
Y5	Properties and changes of Materials	Forces Earth and Space	Living things – life cycles Animals including Humans
Y6	Living things – classification Electricity	Evolution Animals including Humans	Light

An integral part of our Science curriculum is real life context, which links to the contribution of significant individuals who have influenced the world of science (eg Carl Linneaus, David Attenborough, Mary Anning and Charles Darwin)

Reading also links to our Science curriculum and the pupils have access to a range of high quality texts (fiction and non-fiction) about scientific events and influential people. Here are some examples:

EYFS	Plants	The Tiny Seed by Eric Carle
Y1	Seasonal Change	Out and About by Shirley Hughes
Y2	Materials	Ocean meets Sky by Eric Fan
Y3	Rocks	The Pebble in my Pocket by Meredith Hooper
Y4	Animals including Humans	The Little Mole who knew it was none of his business by Werner Holzworth
Y5	Space	Curiosity: The story of a Mars Rover by Markus Motum
Y6	Evolution	The Mollie Bird by Jules Pottle

There are close links between writing and our Science curriculum so pupils can use and apply their scientific knowledge, understanding and skills across a range of genres. Planned writing activities provide opportunities for pupils to show what they know and remember about the science curriculum, events and people who have shaped the world in which we live. Here are some examples:

EYFS	Plants	A story of a tiny seed
Y1	Animals including humans	Non-fiction: an egg spotters guide
Y2	Materials	A captain's log
Y3	Rocks	Letter about an archaeological dig
Y4	Animals including Humans	Narrative writing -The story of a slice of toast
Y5	Earth and Space	Explanation of how their Mars Rover works
Y6	Evolution	Informative description of an endangered animal