

Science - One Page Overview

Intent	Implementation	Impact
 Using Kapow Primary's Science curriculum, at Haydon Abbey we aim to develop a sense of excitement and curiosity about natural phenomena and an understanding of how the scientific community contributes to our past, present and future. We want pupils to develop a complex knowledge of Biology, Chemistry and Physics, but also adopt a broad range of skills in working scientifically and beyond. The scheme of work is inclusive and meaningful, so all pupils, particularly disadvantaged pupils or those with a Special Educational Need, may experience the joy of science and make associations between their science learning and their lives outside the classroom. We want our children to develop as independent, confident, successful Scientists. Our children will have high aspirations of themselves by developing their love of learning and are curious about the world they live in. We aim to encourage critical thinking and empower pupils to question the hows and whys of the world around them. A strong focus on developing knowledge alongside scientific skills. ● Curiosity and excitement about familiar and unknown observations. ● Challenging misconceptions and demystifying truths. ● Continuous progression by building on practical and investigative skills across all units. ● Critical thinking, with the ability to ask perceptive questions and explain and analyse evidence. ● Development of scientific literacy using wide-ranging, specialist vocabulary	 Science will be taught using Kapow's scheme of work which has been split into 3 different strands; Scientific Knowledge and Understanding, Working Scientifically and Science in Action. The scheme of work is taught as a spiral curriculum, with teachers revisiting essential knowledge and skills from previous years including EYFS, with increasing complexity, allowing pupils to revise and build on their previous learning. A range of engaging recall activities promote frequent pupil reflection on prior learning, ensuring new learning is approached with confidence. As the children's knowledge and understanding is built upon, they become more proficient in selecting/using scientific equipment, collating/interpreting results and setting the parameters of their own investigations. The Science in action strand is interwoven throughout the scheme to make the concepts and skills relevant to pupils and inspiring for future application. Cross-curricular links are included throughout each unit, allowing children to make connections and apply their Science skills to other areas of learning. Working Scientifically skills are embedded into lessons to ensure that skills are systematically developed throughout the children's school career and new vocabulary and challenging concepts are introduced through direct teaching and Quality First Teaching Strategies. Lessons incorporate various teaching strategies from independent tasks to paired and group work, including practical, creative, computer-based and collaborative tasks. This variety means that lessons are engaging and appeal to those with different learning styles.	 Children at Haydon Abbey will see themselves as Scientists and will think scientifically Children will have developed the skills to work scientifically evaluating data gathered from investigations and experiments that they have planned. Children will have high expectations of themselves and produce work of a high quality which they can be proud of. Children will have the necessary tools to confidently and meaningfully question and explore the world around them as well as critically and analytically experiencing and observing phenomena. Pupils will understand the significance and impact of Science on society.