Science Policy

2025-2026

Curriculum Intent

At Christ Church CE Academy, we recognise the importance of Science in every aspect of daily life. We give the teaching and learning of Science the prominence it requires as one of the core subjects taught in Primary Schools.

As an area of learning, Science is concerned with increasing all (including SEND) pupils' knowledge and understanding of our world, and with developing skills associated with Science as a process of enquiry. It will develop the natural curiosity of the child, encourage respect for living organisms and the physical environment and provide opportunities for critical evaluation of evidence.

We ensure that the Working Scientifically skills are developed and extended throughout children's time at the school so that they can apply their knowledge of science when using equipment, conducting experiments, building arguments and confidently explaining scientific concepts.

Curriculum Content

The National Curriculum Programme of Study for Science describes a sequence of knowledge and concepts, processes and methods. This sequence of knowledge and concepts is arranged as progressive blocks of key ideas in biology, chemistry and physics, alongside a progression in the skills of working scientifically.

The conceptual ideas in Biology, Chemistry and Physics build on each other and children need to develop a strong understanding of each set of ideas in order for the next set to make sense and for them to make progress. The Programme of Study is set out year by year for Key stages 1 and 2 but each science topic is not covered in every year. It is therefore important that teachers and children know where each block of ideas fits into the overall sequence.

Curriculum Implementation

At Christ Church CE Academy, uses the White Rose Science scheme to provide a structured and coherent programme of learning that builds progressively through each year.

White Rose Science provides engaging lesson content in the same progressive, step-by-step method as the White Rose Maths scheme, which has proved very successful here.

Practical experiences of working scientifically are integral to the White Rose scheme. We aim to inspire and excite children with such activities so that they view scientific learning positively.

This table shows the White Rose Science 'blocks' for each year.

Christ Church CE Academy

White Rose Science Overview 2025 - 2026

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Biology: Humans My body and diet (Healthy Eating) Biology: Seasonal changes		Chemistry: Melting and Freezing Biology: Living Things & their Habitats: My natural world (who lives where?) Biology: Seasonal change		Biology: Plants Biology: Life cycles Chemistry: Materials Physics: Forces/shadows Biology: Seasonal change	
Y1	Biology: The Human Body Biology: Seasonal Changes Chemistry: Materials		Biology: Planting A Biology: Animals Biology: Seasonal changes Biology: Planting B		Biology: Plants Biology: Planting C Biology: Seasonal changes	
Y2	Biology: Animals' needs for survival Biology: Humans Chemistry: Materials		Biology: Planting Biology: Living things and their habitats) Biology: Plants (light and dark)		Biology: Plants (Bulbs and seeds) Biology: Growing up	
Y3	Biology: Skeletons Biology: Movement Biology: Nutrition and diet Chemistry: Rocks		Chemistry: Fossils Chemistry: Soils Physics: light		Biology: Plants A Physics: Forces Physics: Magnets Biology: Plants B	
Y4	Biology: Group and classify living things Biology: Data collection A Chemistry: States of matter		Physics: Sound Biology: Data collection B Physics: Electricity		Biology: Data collection C Biology: Habitats Biology: The digestive system Biology: Food chain	
Y5	Physics: Forces Physics: Space		Chemistry: Properties of materials Biology: Animals including humans Biology: Life cycles		Biology: Reproduction A Chemistry: Reversible and irreversible changes Biology: Reproduction B	
Y6	Biology: Living things and their habitats Physics: Electricity		Physics: Light Biology: The circulatory system Biology: Diet, drugs and lifestyle		Biology: Variation Biology: Adaptions Biology: Fossils	

Curriculum Impact

The approach at Christ Church CE Academy results in a fun, engaging, high-quality science education that provides children with the foundations and knowledge for understanding the world. Our engagement with the local environment ensures that children learn through varied and first-hand experiences of the world around them. Through engaging lessons and scientific enquiry, children have the understanding that science has changed our lives and that it is vital to the world's future prosperity. Children learn the possibilities for careers in science, from a range of different scientists from various backgrounds, allowing all children to feel they are scientists and capable of achieving. Through a positive caring environment, we provide the opportunity for children to reach their full potential.

Assessment Information

The most important assessments teachers make are during science lessons, as teachers observe, question children and check children's work. This helps teachers decide how to support and challenge children as they learn. White Rose Science ensure children's prior knowledge is recapped at the beginning of each lesson through Flashback 4 and to address

any misconceptions. This will help to reduce the gap in learning. Assessment sheets are available for each unit that identify the “key knowledge” pupils need to know

Children are also assessed using White Rose Science worksheets. This helps teachers understand how much progress towards each step of the key learning of the National Curriculum each child has made and helps the school as a whole understand how successful its science curriculum is. At the end of each unit teachers use whole class assessment sheets with key questions to check children’s knowledge.

Monitoring

The science leader will monitor the implementation of the science curriculum and assess the quality of teaching and learning through lesson observations, pupils work scrutiny and feedback from staff and pupils. The impact of the science curriculum on pupils outcomes will be regularly evaluated, informing future planning and development.