St Ann's R.C. Primary School

Science Curriculum Intent

At St Ann's R.C. Primary School, our intent for science is to nurture children's natural curiosity and inspire awe and wonder at God's creation. We aim to equip children with the knowledge and skills to explore, question, and understand the world around them. Through engaging and meaningful experiences, children learn to think critically, work scientifically, and develop a deep appreciation of how science impacts everyday life.

Guided by our values of Love, Respect and Service, children are encouraged to use science to help others, care for the environment, and make thoughtful choices that reflect kindness and responsibility. We strive to provide a rich, progressive and exciting journey in science that prepares children for life in an ever-changing world while fostering independence and a lifelong love of learning.

Implementation

Our science curriculum is built around the three pillars of scientific learning: scientific knowledge, scientific enquiry, and application in real world contexts. Within this, the curriculum is organised around key areas of biology, chemistry, and physics, ensuring children develop a broad and balanced understanding of scientific concepts.

- **Structured Progression:** Science is taught through a clear sequence of knowledge and skills from EYFS to Year 6, enabling children to build on prior learning and deepen understanding.
- **Practical Experiences:** Lessons include hands-on investigations, observations, and experiments to develop confidence and competence in working scientifically.
- **Cross-Curricular Links:** Opportunities to apply science in other subjects, such as data handling in Maths or environmental themes in Geography.
- **Scientific Enquiry:** Embedded throughout the curriculum, teaching children to ask questions, make predictions, and use evidence to draw conclusions.
- **Inclusive Approach:** All children access science through adaptive strategies and resources, ensuring equity and engagement for every learner.

Impact

The impact of our science curriculum is monitored through formative and summative assessments, observations, and discussions, ensuring children make progress and achieve end-of-key-stage expectations.

- Ensure children leave St Ann's as curious, confident, and independent thinkers who can apply scientific knowledge and skills to real-life contexts.
- Develop children's ability to work scientifically, using enquiry methods such as observing, classifying, researching, and conducting fair tests.
- Enable children to make informed decisions about health, the environment, and technology, understanding how science shapes the world and their future.
- Foster respect and responsibility in all scientific activities so that children care for creation and contribute positively to their communities.
- Provide a clear progression of scientific vocabulary and concepts across biology, chemistry, and physics so that children meet, and where possible exceed, end-of-key-stage expectations.
- Teach children to collect, analyse, and present data accurately, making links with mathematics and developing critical thinking skills.
- Ensure children experience the wonder of science through practical investigations, outdoor learning, and enrichment opportunities that inspire a lifelong love of discovery.

January 2026