



Intent

At Blessed Robert Widmerpool we foster a culture of excellence where all children develop curiosity, humility and a sense of responsibility as stewards of God's creation.

Our curriculum enables pupils to:

Develop secure knowledge and understanding in Biology, Chemistry and Physics, with Working Scientifically woven throughout to foster deep thinking and enquiry.

Build curiosity about the natural world and ask meaningful questions

Think critically and scientifically, applying knowledge in real-life contexts

Understand the impact of science on society, the environment and their future

See themselves as scientists, making links to real-world careers

Promote stewardship, responsibility and the common good (CST)

Implementation – How we achieve our aims

Structured, progressive curriculum, carefully sequenced from the National Curriculum with clear progression

Working Scientifically embedded across all units

Knowledge organisers, retrieval practice and revisiting concepts to secure learning

Enquiry-led learning

Children learn through five types of enquiry:

Observation over time

Comparative and fair testing

Identifying and classifying

Pattern seeking

Research using secondary sources



High-quality teaching approaches

Emphasis on questioning, investigation and problem-solving

Explicit teaching of scientific vocabulary and communication

Use of data, graphs, ICT and discussion to deepen understanding

Opportunities for real-life, practical and outdoor learning (including Forest School)

Inclusive and ambitious for all

Adaptive teaching to support all learners, including SEND

Open-ended tasks and appropriate challenge for depth of thinking

Collaborative learning to develop independence and confidence

Cross-curricular and values-driven

Strong links with English, Maths and ICT

Promotes Catholic Social Teaching: stewardship, justice and the common good

Enriched through visits, visitors and wider opportunities



Assessment is ongoing through:

Retrieval and low-stakes quizzes

End-of-unit and termly assessments

Pupil voice, book looks and discussions



The 5 Rs in Science



Our curriculum develops the whole child:

- **Resilience** – Persevering and adapting in investigations
- **Resourcefulness** – Thinking creatively and asking questions
- **Relationships** – Working collaboratively and valuing others
- **Responsibility** – Caring for equipment, living things and the environment
- **Reflectiveness** – Evaluating methods and improving outcomes

Impact – What this achieves

Pupils at BRW:

Demonstrate secure scientific knowledge and apply it confidently

Use a range of enquiry skills to investigate and explain

Communicate using accurate scientific vocabulary

Show curiosity, independence and resilience in learning

Understand their role as responsible global citizens

Achieve well and are prepared for the next stage of education



Key Features



Science taught weekly with a strong emphasis on enquiry and application

Outdoor learning and real-world experiences enrich understanding

Clear progression ensures knowledge is retained and built upon over time