



GOSFORD HILL
SCHOOL

Science Department



GOSFORD HILL
SCHOOL

Our vision and aims (Intent):

- Ambitious and Knowledge-Rich: Our science curriculum is designed to be ambitious and knowledge-rich, ensuring all pupils develop a secure and lasting understanding of the scientific ideas explaining the world.
- Inclusive Education: The curriculum is inclusive, aiming for all learners to succeed regardless of their background or starting point.
- Disciplinary Foundations: We build on primary school learning to introduce pupils to the specific disciplines of biology, chemistry, and physics.
- Big Ideas: We support pupils in making connections across subjects through a carefully sequenced progression of 'big ideas'.
- Scientific Thinking: We intend for pupils to secure accurate factual and conceptual knowledge while developing the enquiry, mathematical, and practical skills needed to think and work like scientists.
- Responsible Citizenship: Our ultimate goal is for pupils to leave with a broad understanding of how scientific knowledge is applied, ready for further study, employment, and to make informed decisions as responsible citizens.



GOSFORD HILL
SCHOOL

Our approach to teaching (Implementation):

- High-Quality and Adaptive Teaching: We use high-quality teaching and adaptive strategies, including strong support for SEND and disadvantaged pupils, to ensure all learners can access the curriculum.
- Sequenced Progression: The curriculum is structured to revisit and deepen key knowledge over time, specifically addressing misconceptions to secure long-term retention.
- Communication and Literacy: We focus on building confidence in scientific language, teaching pupils to use specialist vocabulary precisely and to critique scientific information.
- Practical Application: Pupils are encouraged to apply their knowledge and skills to new contexts and to recognise the relevance of science to society, technology, and their own lives.
- Promoting Diversity: Our curriculum showcases a wide range of scientists and careers to demonstrate that science is for everyone.



GOSFORD HILL
SCHOOL

How we measure success (Impact):

- Conceptual Mastery: Pupils demonstrate a secure and lasting understanding of the scientific ideas that explain the world around them.
- Skill Development: Success is shown through the development of enquiry, mathematical, and practical skills.
- Informed Discussion: Pupils become confident communicators who can engage in informed discussion about complex scientific issues.
- Problem Solving: Learners are able to solve problems and apply their scientific knowledge to different areas of their lives.
- Future Readiness: Pupils are prepared for further study and employment, equipped with a connected understanding of how scientific knowledge is developed.