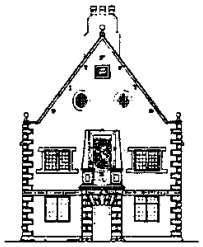

Science Intent:

At Bunny C of E Primary School, we teach the content of the National Curriculum in Science across Key Stages One and Two. By the end of each key stage, children will have developed the scientific knowledge, skills, and curiosity needed to confidently progress to the next stage of their education.

We believe that high-quality science education provides the foundation for understanding the world around us and that every child—regardless of background, gender, ability, or need—has the right to experience the wonder and excitement of scientific discovery. Science is ever-evolving and central to shaping a prosperous, sustainable future. Our teaching reflects this by nurturing inquisitive minds, developing critical thinking, and equipping children with the scientific understanding to make sense of the world they live in.

At Bunny, Science is taught through quality-first teaching that promotes active exploration and problem-solving. Children are given opportunities to investigate scientific phenomena, ask meaningful questions, and test ideas in a supportive, inclusive environment. We value every child's voice and ensure that learning experiences are accessible, engaging, and adapted to meet diverse learning needs—enabling all children to thrive and achieve their full potential.

We build scientific understanding progressively, allowing children to revisit and deepen key concepts each year. This supports their ability to think rationally, communicate ideas clearly, and apply their learning to real-world contexts. Through a vocabulary-rich curriculum, children develop both scientific language and confidence in expressing and explaining their thinking.

Our annual Science and Technology competition encourages children to apply their learning beyond the classroom, developing teamwork, creativity, and resilience. We promote a culture where mistakes are seen as part of learning, curiosity is celebrated, and every child can see themselves as a scientist.

We aim to develop learners who:

- Build secure knowledge and conceptual understanding through Biology, Chemistry, and Physics.
- Develop enquiry skills and understand scientific methods through a range of investigations.
- Recognise the impact and relevance of Science in their lives, today and for the future.

- Communicate scientific ideas effectively using language, diagrams, graphs, ICT, and practical demonstration.
- Work safely and respectfully with materials, equipment, and others.
- Develop enthusiasm, confidence, and enjoyment in scientific exploration.

Above all, Science at Bunny C of E Primary School is about inspiring all children to see themselves as capable scientists**,** fostering a lifelong curiosity about the world and empowering them to take their next steps in education with confidence and inclusion at the heart of all we do.

Science Implementation:

At Bunny C of E Primary School, our Science curriculum is carefully planned and sequenced to ensure that knowledge and skills are developed progressively across all year groups. Our Long-Term Plan, designed on a two-year cycle, outlines the key knowledge and skills to be taught and is firmly rooted in the National Curriculum. This ensures full coverage and a balanced progression through the disciplines of Biology, Chemistry, and Physics.

Teachers use this framework to design engaging and purposeful Medium-Term Plans that link science learning to high-quality texts and meaningful contexts wherever possible. Each unit of work builds on prior learning and includes clear identification of key vocabulary, prior knowledge, and enquiry skills**.** Lessons are structured to promote curiosity, active learning, and scientific thinking.

We are committed to ensuring that every child—regardless of starting point, background, or additional need—can fully access and succeed in Science. Teachers plan for inclusive learning experiences by adapting lessons, providing scaffolds and practical support, and ensuring that resources and questioning are differentiated to meet diverse needs. Group work and collaborative enquiry are used to encourage peer learning, promote confidence, and ensure all voices are heard.

Cultural capital is woven throughout our Science curriculum, with opportunities for enrichment and enjoyment including hands-on investigations, visits, visitors, and participation in the annual Science and Technology competition. These experiences broaden children's understanding of how Science connects to real-world issues and careers, fostering aspiration and engagement for all learners.

Knowledge organisers are provided at the beginning of each topic to outline key scientific concepts, vocabulary, and enquiry skills that children will learn. They act as a reference point throughout the unit, supporting children in recalling prior learning, making connections, and understanding the progression of their knowledge.

Regular assessment of both substantive (knowledge-based) and disciplinary (skills-based) learning allows teachers to identify gaps, address misconceptions, and ensure that all children are supported and challenged appropriately.

Through this carefully structured and inclusive approach, Science at Bunny C of E Primary School ensures that every child builds confidence, curiosity, and a deep understanding of the world around them.

Science Impact:

At Bunny C of E Primary School, our Science curriculum is high-quality, well thought-out, and carefully sequenced to ensure clear progression of knowledge and skills across the school. We strive for all children to develop a secure understanding of key scientific concepts and the confidence to apply their learning in a range of contexts.

If children are keeping up with the pace and expectations of the curriculum, they are considered to be making expected progress**.** Our inclusive approach ensures that all children, regardless of background or ability, are supported to achieve success and develop a positive attitude towards Science and learning.

We measure the impact of our Science curriculum in a range of ways to ensure it is effective and meaningful for every learner:

- Reflection on standards achieved against the planned outcomes at the end of each academic year to monitor attainment and progression.
- Pupil discussions and voice, enabling children to articulate their learning confidently, demonstrate curiosity, and explain how Science helps them understand the world around them.
- Review of pupils' work in books and through practical evidence, showing depth of understanding, application of scientific enquiry skills, and use of key vocabulary.
- Evidence of enrichment and cultural capital**,** including participation in investigations, competitions, visits, and experiences that broaden scientific understanding and engagement.

Through this approach, we ensure that our Science curriculum not only meets the expectations of the National Curriculum but also inspires curiosity, builds resilience, and nurtures every child's belief that they can succeed as scientists**.** The impact is seen in children who are motivated, articulate, and ready to take their next steps in education with confidence and enthusiasm.