Coomb Briggs Primary Academy

Science - Intent, Implement, Impact

Intent:

The 2014 national curriculum for science aims to ensure that all pupils:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific skills required to understand the uses and implications of science, today and for the future. We understand that it is important for lessons to have a skills-based focus, and that the knowledge can be taught through this

At Coomb Briggs, our science curriculum fosters children's natural curiosity about the world and universe, both within their school years and beyond. We aim to instill a deep respect for all living and nonliving things. Our curriculum spotlights the acquisition of knowledge, concepts, skills, and positive attitudes towards science. Following the national curriculum, each year group builds upon key knowledge, progressing towards identified phase "end points." We also map and progressively develop key scientific skills throughout the school. To ensure relevance, we identify and plan for cross-curricular connections. By encouraging questions and exploration, and through a school-wide ethos that values practical science, we nurture a lifelong love of science in our students.

Implementation:

Our science curriculum will be coherent and progressive, building upon prior learning and deepening understanding across all key stages. We will foster inquiry-based learning, empowering students to ask questions and explore the natural world through hands-on experiences and a variety of scientific resources. Our rich and varied learning experiences will include:

- Scientific investigations: Children will conduct experiments, analyse data, and draw conclusions to develop their understanding of scientific concepts and principles.
- Hands-on activities and experiments: Engaging in practical experiments will help children develop their scientific skills and understand how scientific knowledge is applied.
- Visits to science centers, nature reserves, and other relevant locations: Real-world experiences will bring science to life and provide opportunities for hands-on learning and observation.

- Guest speakers: Experts in various scientific fields will share their knowledge and insights, inspiring children to delve deeper into specific topics.
- Creative expression: Children will express their learning through a variety of mediums, including writing, art, design, and presentations.

Impact:

As a result of our science curriculum, our pupils will:

- Develop a secure knowledge and understanding of significant scientific concepts, principles, and theories.
- Interpret and evaluate scientific evidence critically, drawing reasoned conclusions.
- Communicate their scientific understanding confidently and creatively.
- Understand the impact of scientific discoveries and advancements on individuals, societies, and the world.
- Develop a sense of curiosity and wonder about the natural world.
- Appreciate the value of science in understanding the present and shaping the future.