



SCIENCE CURRICULUM

STATEMENT OF INTENT, IMPLEMENTATION AND IMPACT

INTENT

At St Chad's C.E. Primary school, we recognise the importance of Science in every aspect of daily life. As one of the core subjects taught in primary schools, we give the teaching and learning of Science the prominence and relevance it requires. Children at St Chad's will develop a greater understanding of the world through the specific disciplines of biology, chemistry and physics. They will also develop the specific skills and knowledge to help them to think and work scientifically. Our Science curriculum intends to foster a healthy curiosity in children about the world around them as well as a determination to find out why things happen in the way they do. We encourage practical exploration and investigation activities which enable our children to think and behave like scientists. They understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes. Thus, our curriculum aims to enable pupils to develop enquiring minds with a range of investigative skills. By the time they move onto the next stage of their education, we intend that our pupils have a whole new appreciation of the world around them.

IMPLEMENTATION

At St Chad's, we implement a Science curriculum that builds on prior skills and knowledge year on year. We've found that this increases children's enthusiasm for the topic whilst embedding procedural knowledge into their long-term memory. The Pearson Science Bug scheme is available to support teachers and ensure that they have the subject knowledge, skills and confidence to deliver interesting and challenging lessons that engage all pupils. There is planned progression built into the scheme of work, which ensures that all pupils are challenged as they move up through the school. At the heart of our Science curriculum is the use of deep thinking enquiry-based questions, which underpin each area of scientific learning. These questions drive each lesson and allow children to critically reflect on the knowledge and skills they have acquired. They also promote greater learner involvement. In our opinion, it is important for children to be in charge of their learning and develop their ideas from their own starting points. We want them to take risks and experiment with their own ideas. Children have the opportunity to build on the skills they learn at school through our engaging 'Learning Log' activities. They encourage investigative thinking and promote independent learning. Our lessons also aim to immerse children in scientific vocabulary, which not only develops their knowledge and understanding of the topic they are studying, but also the world around them. The relevant vocabulary is on display in every classroom and is continually referred to during lessons. Science assessment is based on teacher's assessment of children. This comprises of formative and summative assessment and is recorded on our bespoke assessment tracker. Teachers use this data to inform future planning, targeting any gaps in knowledge or skills to ensure that our children have every opportunity to develop as investigative scientists.

IMPACT

Our Science curriculum is high quality, well thought out and is planned to demonstrate progression. The impact of this is that our children know more, remember more and are able to do more. They are able to apply their knowledge, skills and understanding to real life and imaginary situations. Our pupils have a rich vocabulary which enables them to confidently articulate their understanding of taught concepts. As a school, we recognise the importance of Science and are committed to building the Science Capital of all students. We hope that this will encourage them to take their Science education further as well as support them in future careers which will undoubtedly involve scientific processes.