



Childwall Church of England Primary School – Science Policy 2022

Intent

Purpose: To empower each and every child by developing their scientific understanding and knowledge. This is in order that they can understand and appreciate the world around us, developing their own Science capital.

Aims: At Childwall, we strive to ensure all children have multiple opportunities to enhance their Science Capital and encourage awe and wonder throughout our curriculum- we push the boundaries in order to nurture thinking minds. To ensure all children have the opportunity to engage fully in their science curriculum, lessons are adapted to support individual learners' needs. We recognise how science impacts every aspect of daily life, and without science humankind would not have made progress throughout history. Learning science is concerned with increasing pupils' knowledge of our world, and with developing skills associated with science as a process of enquiry. Our science curriculum develops the natural curiosity of each and every child, encourages them to have respect for living organisms, and instils in pupils the importance of caring for the natural environment.

Implementation

Teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children can achieve high standards in science. Science will be taught as set out by the year group requirements of the National Curriculum. This is a strategy to enable the accumulation of knowledge and allows progress in repeated topics through the years. Children are encouraged to ask their own questions and be given appropriate equipment to use their scientific skills to discover the answers. Engaging lessons are created from our agreed scheme having both practical and knowledge elements. Teachers use precise questioning in class to test conceptual knowledge and skills and children are regularly assessed to identify those children with gaps in learning, so that all children keep up. As the children's knowledge and understanding increases, and they become more proficient in selecting and using scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence. Working Scientifically skills are explicit in lessons ensuring these skills are being developed throughout the children's school career and new vocabulary and challenging concepts are introduced through direct teaching. **Assessment:** The attainment throughout science is assessed through teacher formative assessment as well as through our Mastermind quizzes to assess that "sticky knowledge" from previous year groups.

Impact

An essential part of the children becoming scientists is promoting curiosity and encouraging the children to ask questions. Our expectation is that children will be able to develop their own questions, by the end of KS2 plan different types of enquiries to answer those questions and communicate their findings in a variety of ways. Children will understand that part of science is failing and that problem solving helps us to overcome these failures. Children learn the possibilities for careers in science as a result of our community links and connection with national agencies such as the STEM association.