



STATEMENT OF INTENT

SCIENCE

Our School Vision

An Inclusive Community Inspiring Life Long Learners

Intent

At Alderley Edge Community Primary School we believe that the children deserve a broad and ambitious Science curriculum, rich in skills and knowledge, which ignites curiosity and prepares them well for future learning or employment. Our Science curriculum will give students the opportunity to develop practical skills by working scientifically, articulate scientific concepts clearly and precisely, remedy misconceptions, and understand the nature, processes and methods of Science. The children can see the uses and implications of Science today and for the future. They are able to accurately read and interpret technical terminology and can see connections between subject areas and become aware of the big ideas underpinning scientific knowledge and understanding. The children are able to challenge received wisdom by taking into account new evidence and ideas use problem solving skills and numeracy within scientific concepts. We build on the outcomes in the EYFS, through the National Curriculum and their Science Capital to achieve these goals. Our intention is that Science also fully supports our core drivers of academic excellence, life-long learning, possibilities and risks and social intelligence so that the children are equipped to carry on learning beyond their primary education. Through Science we will develop the children's creativity and cross curricular learning to engage children and enrich their experiences in school.

Implementation

Our whole curriculum is shaped by our school vision which aims to enable all children, regardless of background, ability, additional needs, to flourish to develop the knowledge and skills to be life-long learners. We teach the National Curriculum, supported by a clear skills and knowledge progression using the Collins scheme of work. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children in Biology, Chemistry and Physics. In order to support children in their ability to 'know more and remember more' there are regular opportunities to review previous learning, children are given the opportunity to share what they already know about a current topic as well as previous lessons. Links are also made to future learning as the children progress through school and enter KS3. Effective use of education visits and visitors are planned, to enrich and enhance the pupil's learning experiences within the Science curriculum. Teachers use assessment for learning in each lesson to ensure misconceptions are highlighted and addressed. We also ensure a progression of scientific vocabulary to support children in their understanding. At Alderley Edge Community Primary School, we give children access to a wide range of good quality resources and provide cross curricular opportunities for children to apply their scientific knowledge and skills. During our Science Week, children at the end of both Key Stages are given the opportunity to present their own independent scientific enquiries to the school

Impact

The implementation of this curriculum ensures that when children leave Alderley Edge Community Primary School, they will have wider variety of skills linked to scientific knowledge, understanding, scientific enquiry and investigations. They will be equipped with a richer vocabulary which will enable them to articulate their understanding of taught concepts. Children will leave Alderley Edge with high aspirations, which will see them through to further study, work and a successful adult life.