

Science

Intent: what are we trying to achieve?

Our science curriculum is planned and sequenced to ensure that every pupil has the opportunity to develop their scientific knowledge, skills and understanding. We aim for every lesson to be taught with purpose and to provide pupils with the opportunity to accumulate and retain key information. In addition to this, we want pupils to be able to work as professional scientists do, using important skills such as planning fair tests, processing data sets and drawing conclusions. In addition to this, we intend for each pupil to leave Anns Grove with an understanding of how the discipline of science is used to improve the lives of all, has developed over the course of history and continues to grow and change. Furthermore, we hope that the teaching of science at Anns Grove fosters a sense of curiosity in all of our pupils and leaves them with a life-long love of the subject. We hope that every child, regardless of their background, believes that continuing to learn about and engage with science is a viable option for them.

Implementation: how are science lessons being delivered?

Science is delivered through half-termly topics which rigorously cover the content laid out by the National Curriculum. Each unit of work is sequenced so that the knowledge, skills and vocabulary included build on what has been taught previously. Lessons are planned to help pupils absorb and remember key information. For example, teachers carry out regular summative and formative assessment through the provision of tests at the start and end of units of work and regular quick quizzes. Pupils are provided with detailed knowledge organisers and vocabulary sheets to aid the retention of the knowledge they are taught. Lessons are engaging and move at a quick pace; they contain regular opportunities for practical and hands-on activities, group work and meaningful investigations and experiments. All pupils are able to access the science curriculum through differentiated tasks suitable to their specific needs. In addition to their regular lessons, pupils are encouraged to develop their understanding of science through participating in events such as British Science Week, workshops run by professional scientists, visits from university students and exciting trips and visits.

Impact: what difference is science making?

Pupils at Anns Grove are excited about science and enthusiastic about their learning. They are able to use their knowledge and skills to explain their understanding of scientific concepts and can pose questions to investigate further. They are resilient learners and can use their understanding of scientific enquiry to answer questions about the world around them and give reasons for their ideas. Children can recall information over a long period of time from across the curriculum which enables most pupils to make expected or better progress. Pupils are consistently prepared for the next stage of their scientific education. Furthermore, they are able to see how science is used in the world around them and understand how the discipline has developed over time. All pupils, regardless of their background, see science as a subject area that is inclusive of and relevant to themselves.