

Science Overview

Intent	Implementation	Impact
<p>All children are encouraged to:</p> <ul style="list-style-type: none"> think scientifically, to gain an understanding of scientific processes and also an understanding of the uses and implications of Science, today and for the future; develop and use a range of scientific enquiry skills including observations, planning and investigations; question the world around them and become independent learners in exploring possible answers for their scientific based questions; develop and use relevant specialist vocabulary for topics; gain a strong understanding of the world around them whilst acquiring specific skills and knowledge. <p>As part of our Science provision at Westgate, we aim to:</p> <ul style="list-style-type: none"> provide our pupils with a broad range of opportunities, including a range of educational visits and opportunities to work in partnership with a variety of community groups through the teaching of Science we aim to ensure that our pupils develop an understanding of their relationship with our physical world and the interdependent nature of this. We aim for our children to become responsible stewards of our planet and its resources. 	<p>As part of this planning process, teachers need to plan the following:</p> <ul style="list-style-type: none"> Working Scientifically – identify and embed the science skills that will be taught within each topic. Consider how they will deliver these, ensuring that the children are aware of the development of these skills; Relevant scientific vocabulary – identify and ensure that this is taught and used accurately by both staff and children; A cycle of lessons for each subject, which carefully plans for progression and depth; Challenge questions for pupils to apply their learning in a philosophical/open manner; Trips and visits from experts who will enhance the learning experience; Link the curriculum to the school's INSPIRE vision and British Values; Identify areas of weakness and seek support from the science lead or organise CPD. <p>As part of this assessment process, teachers will:</p> <ul style="list-style-type: none"> Use TAPS focussed assessments every term to inform assessment; Participate in termly moderation to ensure consistency in assessment. <p>The Science lead will:</p> <ul style="list-style-type: none"> Support staff, as required in planning and assessment. Support staff, with CPD and training 	<p>Impact is measured by ensuring that children not only acquire the age-related knowledge linked to the science curriculum, but also skills which equip them to progress from their starting points, and within their everyday lives.</p> <p>All children will have:</p> <ul style="list-style-type: none"> A wider variety of skills linked to both scientific knowledge and understanding, and scientific enquiry skills. A richer vocabulary which will enable them to articulate their understanding of taught concepts High aspirations, which will see them through to further study, work and a successful adult life. <p>In addition, we measure the impact of our curriculum through the following methods:</p> <ul style="list-style-type: none"> Monitoring and analysis of pupil progress; Pupil discussions about their learning; Termly moderation meetings, within and across phases support staff in accurate assessment of both skills and knowledge Termly assessment using Insight