

# Science Overview



Intent	Implementation	Impact
<p>All children are encouraged to:</p> <ul style="list-style-type: none"> <li>● 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;</li> <li>● develop and use a range of scientific enquiry skills including observations, planning and investigations;</li> <li>● question the world around them and become independent learners in exploring possible answers for their scientific based questions;</li> <li>● develop and use relevant specialist vocabulary for topics;</li> <li>● gain a strong understanding of the world around them whilst acquiring specific skills and knowledge.</li> </ul> <p>As part of our Science provision at Westgate, we aim to:</p> <ul style="list-style-type: none"> <li>● 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</li> <li>● develop our pupils' understanding of how Science influences our day-to day lives and drives progress in society</li> <li>● through the teaching of Science we encourage our pupils to become reflective and responsible individuals who use scientific knowledge and skills to make informed decisions and contribute positively to the world around them.</li> </ul>	<p>As part of this planning process, teachers need to plan the following:</p> <ul style="list-style-type: none"> <li>● Working Scientifically – identify the science skills that will be taught within each KAPOW unit. Ensure that the children are aware of the development of these skills;</li> <li>● Relevant scientific vocabulary – identify and ensure that this is taught and used accurately by both staff and children;</li> <li>● Using KAPOW, deliver a cycle of lessons for each subject, which carefully plans for progression and depth;</li> <li>● Develop the children's ability to explain their ideas both orally and in writing;</li> <li>● Trips and visits from experts who will enhance the learning experience;</li> <li>● Link the curriculum to the school's ethos and British Values;</li> <li>● Identify areas of weakness and seek support from the science lead or organise CPD.</li> </ul> <p>As part of the assessment process, teachers will:</p> <ul style="list-style-type: none"> <li>● Use Headstart Primary Assessment units each half term to assess knowledge of the topic covered;</li> <li>● Record Headstart assessments on INSIGHT</li> </ul> <p>The Science lead will:</p> <ul style="list-style-type: none"> <li>● Support staff, as required in planning and assessment.</li> <li>● Support staff, with CPD and training</li> </ul>	<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"> <li>● The confidence to ask questions, make observations, carry out investigations, record data, analyse and present their findings.</li> <li>● A richer vocabulary which will enable them to articulate their understanding of taught concepts</li> <li>● High aspirations, which will see them through to further study, work and a successful adult life.</li> </ul> <p>In addition, we measure the impact of our curriculum through the following methods:</p> <ul style="list-style-type: none"> <li>● Monitoring and analysis of pupil progress;</li> <li>● Pupil Voice interviews</li> <li>● Half termly assessment recorded on Insight</li> </ul>