

Trafalgar Junior School: Science Curriculum Overview

Subject	Intent	Implementation	Impact
<p>Science</p> <p><i>Knowledge:</i></p> <ul style="list-style-type: none"> • biology • chemistry • physics <p><i>Skills:</i></p> <ul style="list-style-type: none"> • enquiry types • working scientifically 	<p>The curriculum will ensure children will be able to:</p> <ul style="list-style-type: none"> • study the science disciplines of biology, chemistry and physics • use a range of science enquiry types to answer scientific problems • develop scientific skills in order to raise questions and find answers to scientific problems • know about the work that different scientists carry out, including significant scientists and their contributions 	<p>We follow the national curriculum in science, supported by specialists, such as Ogden Trust and PSTT. The science overview outlines what is covered in each year group and how the subject is sequenced. Knowledge and skills build to ensure there is progression through our curriculum.</p> <p>Lessons include:</p> <ul style="list-style-type: none"> • learning questions for children to explore and find answers to • exposure to a range of enquiry type to answer questions: <ul style="list-style-type: none"> • identification and classification • pattern seeking • research • observation over time • fair testing • practical, hands-on experiences to promote the enjoyment of science and the development of cultural capital • the development of science skills, which are embedded throughout all lessons • exposure to a range of significant scientists, both modern and contemporary • adaption to suit all abilities • trips and visitors to enrich learning, eg. Kew Gardens, Science Museum, Twickenham Apiary, Visiting Planetarium, nurse visits <p>Timing:</p> <ul style="list-style-type: none"> • taught weekly <p>Supported by: Association of Science Education (ASE), STEM Learning, Primary Science Teaching Trust (PSTT), Ogden Trust</p>	<p>Assessment includes:</p> <ul style="list-style-type: none"> • pupil self-assessment • regular recap of prior knowledge to check understanding, using assessment for learning, quizzes, unit/year/KS tests • on-going assessment during lessons and marking, with teachers adapting planning as required • monitoring of end points to review children’s progress • a mixture of end of topic and end of term tests are carried out to inform teachers’ judgments • years 5 and 6 carry out SATs style papers to prepare them for the science SATs held every two years • the science teacher assessment frameworks are used to support external moderation in years 4 and 6 <p>Statutory tests:</p> <ul style="list-style-type: none"> • Year 6 sample SATs held every two years <p>Monitoring:</p> <ul style="list-style-type: none"> • on-going check-ins between subject leads and teachers • regular monitoring by SLT and subject leads on a timetabled cycle