

## Science Curriculum Intent

At OHA our Science curriculum intent is

	OHA Curriculum Intent	Science Intent
<b>Broad and balanced</b>	All students have the opportunity to study all subjects on the National Curriculum including PSHE and SRE. This should allow all students to develop emotionally, intellectually and creatively and provide an opportunity to follow their own journey towards their own aspiration.	<p>“Create scientists for the future and prepare students for a variety of future careers.”</p> <p>Our curriculum is aimed to inspire students to succeed in science and want to go on to further education in a science-based career. We provide students with opportunities to access a wide range of science topics both within and beyond the national curriculum and link these with the careers they could study in the future.</p>
<b>Preparation for the future</b>	We believe that all students should experience a solid foundation at Key Stage 3 and therefore all students follow a three-year Key Stage 3. This ensures that OHA students have the skills, knowledge and understanding to have a successful Key Stage 4 and open doors to both Post-16 study and future employment.	<p>In the science curriculum we aim to ensure students are prepared for lifelong learning in science and have the necessary skills and knowledge to continue within the science community after leaving school. In order to achieve this, we ensure students follow a broad and balanced curriculum which embeds this.</p> <p>We aim to:</p> <ul style="list-style-type: none"> <li>• Create knowledgeable, scientifically and technologically literate, problem solvers</li> <li>• Foster a spirit of enquiry and nurture curiosity</li> </ul>

		<ul style="list-style-type: none"> <li>• Bring current relevant and real-world science into the classroom</li> <li>• Create educated citizens capable of comprehending and analysing global scientific issues</li> <li>• Develop critical thinkers/problem solvers/innovators and team players</li> </ul>
<b>High aspirations:</b>	We have designed a curriculum which is enjoyable, ambitious and motivates all students including SEND and the most disadvantaged towards lifelong learning.	We offer an aspirational curriculum which follows the national curriculum but also offers additional knowledge and skills outside of the national curriculum we feel supports the students in further study or in understanding key debates within the scientific community. We also offer a variety of other extra-curricular activities open to all individuals and abilities including our historically successful STEM team. We also have links with local further education providers allowing students to access and gain experience in a scientific environment outside school.
<b>Promotes the Academy values</b>	Our students will demonstrate Respect, Resilience and responsibility throughout their daily life at the academy.	A scientific working environment is an excellent atmosphere for fostering the academy values of respect, resilience and responsibility. Students have responsibility for working as part as a team when completing practical activities and investigations. Students have to show resilience when practical activities don't go to plan and respect for differing opinions on controversial topics.
<b>Rich knowledge based</b>	Students will leave OHA following five years of study, fully prepared for a variety of ambitious destinations. By providing students with extended and independent learning, our students will be ready to embrace the wider world around them.	Students will leave the academy with the knowledge and skills to become an expert in science, know and understand key concepts in science and confidently use scientific language. They will have experience in a broad variety of scientific topics which will enable them to continue to develop skills further at a higher standard and engage in scientific debate making informed decisions.