

Science



ALEC REED ACADEMY
PROUD TO LEARN



The Science Department is an experienced and successful team, committed to ensuring that our students receive inspirational Science teaching. We are in a unique position as we have the opportunity to educate and enthuse our students through a combination of theory and practical work. It is important for students to understand how important Science is to their daily lives, its potential for the future, how our knowledge has developed through the ages, and how they can use skills gained through Science to their advantage in a wide range of areas such as higher education and employment. We aim to promote independent learning, and to actively encourage students to go beyond what is presented to them and install enough courage and skill within them so that they enquire as to how, and why something exists and works.



As teachers of Science, we strive to share our passion with our students and empower them in choices they make now and in the future. We are responsible for the delivery of Science in the Academy at Key Stages 3, 4 and 5. Students in Years 7 and 8 follow an accelerated Key Stage 3 curriculum with an emphasis on developing learning and independent thinking skills. The practical approach is filled with experiments and activities to make learning motivating, engaging and fun. It is accessible to all abilities, providing feedback to students on their current achievement grades with further encouragement and feedback for improvement. This approach is continued at GCSE, which commences for students in Year 9. The aim of our curriculum team is to ensure all students attain a minimum of 2 GCSE's in Science and that the highest attaining students complete triple GCSE Science, all to pass with the best possible grade of their ability.



The Academy has amazing facilities for Science clubs. A 6 acre on-site Outdoor Education Centre (Academy Fields) includes a large pond, weather station, allotments and outdoor classrooms and the IT Science curriculum has been developed to make best use of these facilities.



At Key Stage 5 the department currently offers OCR Biology, Chemistry and Physics at AS level. It is a key focus of the team to deliver outstanding results at Key Stage 4 and increase the number of students staying at the Academy Post 16 to study Science subjects.

Accommodation for the department has been recently refurbished and currently comprises of eight fully equipped laboratories, two dry rooms and a large prep room.

Our work is supported by an enthusiastic team of technicians and dedicated CLASS Workers who work closely with teaching staff to support students in lessons.