

<p><i>The aim of Science is to inspire and foster a lifelong love of Science and a desire to make a positive difference to the world. Students will apply a natural curiosity to develop evidence based understanding of the world around us and embrace the challenges that learning Science brings through mistakes and determination.</i></p>	<p><u>KS 3 Intent (Science)</u></p> <ul style="list-style-type: none"> • Build on problem solving skills in a practical, safe environment • Promote investigative skills and a passion for science • Understand the key scientific concepts in preparation for GCSE through the topics at KS 3 • Learn about specific scientists and their impact on society • Learn the relevance of science to everyday life, STEM day with The Bloodhound SSC • Prepare students to think like a scientist (modelling through the teacher) • Support prior learning at KS 2 • Link topics to the past and current issues (everyday life) • Encourage evidence based thinking (in a society of increasingly fake news) • Teach Biology/Chemistry/Physics
	<p><u>KS 4 Intent (Combined or Separate Science)</u></p> <ul style="list-style-type: none"> • Build on practical skills (25% of the GCSE) • Each student has the opportunity to study combined science or the separate sciences in year 11 • Analyse data to draw own conclusions • Develop mathematical skills specific to science • Link careers in science and other disciplines • Foster an awareness to being a global citizen • Promote literacy and comprehension with scientific vocabulary and exam command words
	<p><u>KS 5 Intent (AQA Physics)</u></p> <ul style="list-style-type: none"> • To Promote independent working • Develop logical thinking to aid problem solving • Develop practical skills and confidence handling specific/technical equipment (PAC skills) • Enrichment through a trip to CERN and The Rutherford Appleton Laboratory • Students select their own options in year 13 to promote their interest/passion • Ensure competence in mathematical skills and literacy skills • Ability to apply skills to real world and unknown applications
<p><u>Curriculum Implementation</u></p>	<ul style="list-style-type: none"> • Curriculum docs • Lesson provision • Year 11 open evening

Curriculum Impact

Assessed through:

- Student outcomes
- Learning walks and observations
- Work scrutiny
- Termly data analysis through ALPs connect and SISRA
- Department/HOF meeting minutes
- KS 5 uptake
- Summative/Formative assessment

Strong Impact if:

- Excellent outcomes (results)
- Post 16 pathways in Physics are successful
- Excellent behaviour in lessons and attitude to learning
- Students take pride in their work, presenting it to a high standard
- All students accessing curriculum (differentiation)