

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.

KS 3 Intent (Science)

- 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

KS 4 Intent (Combined Science or Separate)

- 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 of how to be a global citizen
- Promote literacy and comprehension with scientific vocabulary and exam command words

KS 5 Intent (OCR B Salters)

- Enrichment through educational trips to University of Bristol and Gambia
- Link chemical concepts to real-life applications
- Develop scientific literacy
- Understand how chemistry applies to the industry
- Realise the impact chemistry has had on significant scientific discoveries
- Build on and apply KS4 scientific understanding
- Develop transferable life skills

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| <u>Curriculum Implementation</u> | <ul style="list-style-type: none"> • Curriculum docs • Lesson provision • Year 11 open evening |
| <u>Curriculum Impact</u> | <p>Assessed through:</p> <ul style="list-style-type: none"> • 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 <p>Strong Impact if:</p> <ul style="list-style-type: none"> • Excellent outcomes (results) • Post 16 pathways in chemistry 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) |