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**SCIENCE DEPARTMENT**

The Science department consists of a highly committed team of thirteen teaching staff and four technicians. All members of the team are dedicated to providing the best science education for students of the school and will do this by regularly sharing good practice, writing supportive schemes of work, participating in joint observations and mentoring of new staff.

The department is accommodated in the main school building on two floors: there are eleven laboratories, two large preparatory rooms and a newly refurbished science office. All laboratories have interactive technology.

The upper and lower preparation rooms are staffed by experienced and helpful technicians. All laboratories are networked to both the school curriculum network and the internet.

The results for Key Stage 3 are impressive and have shown a steady progression over the last five years. Students follow a combined bespoke course at KS3, the objective of which is to allow students to become independent thinkers.

At Key Stage 4 we offer Combined (Trilogy) and Separate Award Sciences following the AQA specifications. The sciences are taught separately with both combined and separate students having Biology, Chemistry and Physics teachers. The results in 2024 were as follows:

* Combined Science: 87% 4+ / 70% 5+
* Biology: 98% 5+ 80% 7+
* Chemistry: 96% 5+ 71% 7+
* Physics: 98% 5+ 77% 7+

The Sciences are a popular choice at AS and A Level with students studying the three subjects following the AQA specifications. The department achieves high academic success with many of our A-level students going on to higher education courses, often at Russell Group universities, in Science, Technology and Medicine.

Results at A-level are consistently strong with a 100% pass rate for Biology, Chemistry and Physics.

* Biology: 76% A\*- C
* Chemistry: 84% A\* - C
* Physics: 76% A\*-C

The Science department runs a range of extra-curricular initiatives, including a KS3 Science Club and a Sustainability Team which has achieved the Green Flag Award. We also organise whole school year enrichment days on sustainability in year 7 and ‘The Science Behind Design’ in year 9.

There is also a strong representation from the school in competitions, which has included the SATRO Problem Solving Challenge and the NPL Water Rocket Challenge. There is also a visit to CERN for sixth formers and students have participated in a UK - Japan Young Scientists programme which has involved trips to Japan and Cambridge to take part in a range of workshops. Sixth formers also attend a residential biology field trip.

**Science Team 2022/23**

Carrie Reeve Head of Science

Alex Bishop Head of Physics

Roy Carley Physics/KS3 Coordinator

Caroline Whitehouse Chemistry/Oxbridge Coordinator

Lara Bramall Chemistry/EPQ Coordinator

Alan Johnston Chemistry/Intervention Coordinator

Greg Woodier Chemistry

Sarah Miles Biology

Ciara Martinez Biology Lead/Oversight of Biology A-Level

Preeti Parkash Biology

Helen Tadd Biology/Oversight of Biology GCSE

Shelley Harrington-Hill Biology

Maria Langford Biology (Maternity leave)

Science Technicians Lynda Sugden

Adam Sugden

Marta Friedmann

Nikki Burge