

Science Faculty

Faculty Vision *‘To work together as a team with pupils, parents and within the wider context of the school to bring the very best Science education to each and every one of the learners at Rainhill High School. To promote outstanding Science across all key stages for all students’.*

Faculty Aims

- To provide, through the exploration of Science, a coherent educational experience for all students.
- To stimulate curiosity, interest and enjoyment in science and its methods of enquiry
- To contribute, through these aims, to the School Aims.

Facilities

The faculty is housed across 2 buildings with all laboratories having been refurbished in summer 2011. There are two classrooms, 3 laboratories and an IT suite in the sixth form building and 7 laboratories in B block. All teaching rooms have full interactive white boards.

2017 Results

2017 Results GCSE		
Biology	A*A	45.7
	A*C	97.1
Chemistry	A*A	54.3
	A*C	100
Physics	A*A	37.1
	A*C	97.1
Core	A*A	12.5
	A*C	62.5
Additional	A*A	12
	A*C	59
2017 Results A Level		
Biology A2 (12 pupils)	A*B	58.3
	A*C	100
Chemistry A2 (8 pupils)	A*B	50
	A*C	87.5
Physics A2 (3 pupils)	A*B	66.7
	A*C	66.7
BTEC Applied Science Diploma L3 (1)	@A*C	100
BTEC Applied Science Sub Diploma L3 (6)	@A*A	50
	@A*C	100

Cuyrrent Update Numbers of Students				
Key Stage 4				
Year	GCSE Biology	GCSE Chemistry	GCSE Physics	
9	53	58	58	
10	63	63	63	
11	53	53	53	
Sixth Form				
	A level Biology	A level Chemsitsry	A level Physics	L3 BTEC Applied Science
12	19	7	10	5
13	4	2	4	8

Staffing

Head of Faculty

[vacancy]

Physics Department

Paul Hurst

Head of Physics

Debbie Barker

Wendy Trelfa

(Part time)

George Papworth

Biology Department

Gareth Pugh

Head of Biology

Lyndsey Gordon

Devon Hamon

Chemistry Department

Mike Beswick

Head of Chemistry, Data and Timetabling

Nicky Hesketh

Head of KS3 Science

Jen Davanzo

Neil Fairhurst

(Part time)

LFC Link Teacher

Elizabeth Williams

Technical support

Jon White

Senior Technician

Lynette Scattergood

(Part Time)

Curriculum

KS3

Students are taught set on ability based on KS2 Maths data and internal assessment data. They have 3 lessons of Science a week and have one science teacher for each of Biology, Chemistry and Physics. We follow departmental schemes and assess pupils during 3 LP assessments each year, one of which is based on cumulative data.

KS4

The school has a 3 year KS4 and all GCSE Science is taught to the AQA specification. Approximately 55 pupils take Single Sciences (Biology, Chemistry and Physics) which are delivered by subject specialist teachers. The remaining 190 or so pupils follow the AQA Trilogy pathway; these pupils are set based on ability and have one teacher for each of Biology, Chemistry and Physics.

KS5 Science at Rainhill Sixth Form Centre - Science Academy.

In year 12 and 13 the three sciences are popular and successful options. In addition to the traditional A-levels, BTEC level 3 Applied Science is offered and its vocational, work based, focus has proved successful and engaging, allowing more students to carry their Science studies into the Sixth Form.

In the last two years alone, we have seen two of our Science students' progress to Oxford University and a number of others embark on Science courses at Russell Group universities.

All sixth form students become part of the Rainhill Sixth Form Science Academy which allows students to enhance their university applications through adding to their Science experience through a range of visits to industry, master classes, EPQ, extended research; and have work placements with key science based employers. Recent activities have included a visit from Prof. Martyn Amos and subsequent work with his lab on computer modelling, field trips to Delamere Forest and Cranedale Field Centre, careers connections, work with SP Energy Networks and a visit to University of Liverpool to look at the X-ray Crystallography work. This is a crucial element in helping to recruit and retain the best of Y11 at the school and beyond to enroll in Sixth Form Science subjects.

If you have any questions about the post or Faculty do not hesitate to contact me.

Mrs Wendy Segal
Assistant Head Teacher (Raising Standards)

