

## Science Faculty

### Faculty Vision

*'A place where students love science, staff love teaching, and academic progress is outstanding'.*

### Faculty Core Values

- Engagement
- Challenge
- Resilience

### Faculty Aims

- To provide challenging, engaging lessons, where pupils are trained to be curious and resilient.
- To share well-planned resources, a supportive culture, and hold pupils/each other to the highest standards.
- For all pupils to make positive progress; increasing KS5 retention and future scientists.

### 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.

### 2018 GCSE Results

2018 Science Measure	
Achieving 2 x Sci Standard Pass	67%
Achieving 2 x Sci Strong Pass	49%

Trilogy Science	
Trilogy 7+	8%
Trilogy 4+	55%

Separate Science	
Biology 7+	57%
Biology 5+	100%
Chemistry 7+	77.4%
Chemistry 5+	96.2%
Physics 7+	57%
Physics 5+	92.5%

### 2018 A Level Results

2018 A2 Results	
Biology A*-B	33%
Biology A*-E	100%
Chemistry A*-B	50%
Chemistry A*-E	100%
Physics A*-B	0%
Physics A*-E	100%

Current Update Numbers of Students				
Key Stage 4				
Year	GCSE Biology	GCSE Chemistry	GCSE Physics	
9	49	49	49	
10	56	56	56	
11	62	62	62	
Sixth Form				
	A level Biology	A level Chemistry	A level Physics	L3 BTEC Applied Science
12	7	6	9	11
13	17	4	8	4

## Staffing

Katie Robinson	<b>Head of Faculty</b>
Lyndsey Gordon	Head of Biology
Mike Beswick	Head of Chemistry, Data and Timetabling
Paul Hurst	Head of Physics
Nicky Hesketh	Head of KS3 Science
Jen Davanzo	
Neil Fairhurst	(Part time)
Devon Hamon	
Chris Pownell	
Wendy Trelfa	(Part time)
Elizabeth Williams	LFC Link Teacher
Stefan Blackburn	
Rebecca Harper	
Patrick McDonnell	
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 from in-class tasks and assessments.

### KS4

The school has a 3 year KS4 and all GCSE Science is taught to the AQA specification. Approximately 2 sets of pupils take Single Sciences (Biology, Chemistry and Physics) which are delivered by subject specialist teachers. The remaining 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 the Faculty do not hesitate to contact me.

**Miss Kate Robinson**  
**Head of Science**

