



## 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 is a classroom, 3 laboratories and an IT suite in the sixth form building and 6 laboratories and 1 classroom in B block. All teaching rooms have full interactive white boards

### 2015 Results

GCSE		
Biology (43 students)	A*/A	62.8
	A*-C	97.7
Chemistry (43)	A*/A	62.8
	A*-C	97.7
Physics (43)	A*/A	67.4
	A*-C	100
Core (193)	A*/A	16.6
	A*-C	82.9
Additional (148)	A*/A	12.8
	A*-C	75
BTEC Principles (43)	P/M	100
BTEC Applications (42)	P/M	100

<b>AS</b>		
Biology (25)	A*-B	12.5
	A*-C	12.5
Chemistry (17)	A*-B	0
	A*-C	50
Physics (7)	A*-B	25
	A*-C	25
BTEC L3 (12)		

<b>A2</b>			ALPS
Biology (8)	A*-B	50	5
	A*-C	100	
Chemistry (7)	A*-B	66.7	2
	A*-C	83.3	
Physics (2)	A*-B	40	5
	A*-C	80	
BTEC L3 (12)	D/D*	100	2

### Current Student Uptake Numbers

Year	Biology	Chemistry	Physics	Applied
9	53	53	53	
10	55	55	55	
11	52	52	52	
12	24	13	9	6
13	8	7	4	16

All other students at KS4 study Combined Science with AQA exam board

### Staffing

The teaching staff in the faculty span a broad spectrum of experience. The Science Faculty is supported by a team of technical staff.

Elisabeth Lockyer  
Steve McGhee

Head of Faculty  
Lead Practitioner

### Physics Department

Jenni McClure  
Debbie Barker  
Wendy Trelfa  
Vacancy

Head of Physics  
  
(Part time)

### Biology Department

Gareth Pugh  
Lyndsey Gordon  
Angela Moore

Head of Biology  
Head of Vocational Science

### Chemistry Department

Mike Beswick  
Nicky Hesketh  
Paul Hurst  
Neil Fairhurst

Head of Chemistry, Data and Timetabling  
Head of KS3 Science  
  
(Part time)

### LFC Link Teacher

Elizabeth Williams

## **Technical support**

John White

Lynette Scattergood

Senior Technician

(Part Time)

## **Curriculum**

KS3

Students are taught as form groups during year 7 and set on ability at the beginning of year 8. They have 3 lessons of Science a week and have one science teacher who delivers Biology, Chemistry and Physics. We follow departmental schemes and assess using block tests on a termly basis.

KS4

The school has a 3 year KS4 and all GCSE Science is taught to the AQA specification. Approximately 60 pupils take Single Sciences (Biology, Chemistry and Physics) which are delivered by subject specialist teachers. The remaining 180 pupils follow the Combined Science pathway, these pupils are set based on ability and have one teacher who delivers all Biology, Chemistry and Physics

## **KS5 Science at Rainhill Sixth-Form Science Academy.**

In year 12 and 13 the three sciences are popular and successful options. They are led by experienced Heads of Department and taught by subject specialist teachers. 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.

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.

**Ms. E. Lockyer**  
**Head of Science**

