

Introduction

Science plays an increasingly important part in all of our lives. The challenges which face the world require scientists and engineers to be at the fore of innovation. However, the changing world demands that all members of society are scientifically literate and as such are equipped to make informed choices for themselves and their families. Throughout the school our aim is to make the student experience in Science both stimulating and enjoyable.

JUNIOR SCHOOL YEAR 3 AND 4

Students are introduced to Science through topics across the disciplines, which promote scientific understanding and the development of practical skills.

Topics are relevant, accessible and promote an interest in Science and the world around us.

A visit to Whipsnade Zoo offers students in Year 3 the chance to take part in a workshop where they look at animal behaviour and eating habits. This is an enjoyable day which complements the learning in the classroom.



JUNIOR SCHOOL YEAR 5 AND 6

Building on the course in Years 3 and 4, the topic approach continues to develop scientific knowledge and experimental skills.

Year 5 have an annual 'Science Challenge' run by the Senior School's Science Society as part of National Science Week.

All Year 5 pupils visit the Thinktank Science Museum in Birmingham and this presents them with opportunities to look at the planetarium, technological innovations and to consolidate their work on healthy living.

Part of the Year 6 residential trip to Kingswood is devoted to a scientific investigation into animal habitats.

SENIOR SCHOOL YEAR 7 AND 8

Combined Science is a two year course which aims to inspire students to develop their scientific skills, knowledge and understanding.

It is a hands-on, practical based course that provides a suitable foundation for further scientific learning in Year 9 and beyond.

There is a popular and active science club which meets weekly and allows students to extend their understanding by participating in fun activities outside of the curriculum.

Students participate in National Science Week events organised by older students, including practical challenges and quizzes.



SENIOR SCHOOL YEAR 9 TO 11

The sciences are taught separately from Year 9 where the preparation for IGCSE begins.

At the end of Year 9 students will choose to study the three sciences as one of two options; Double Award or Triple Award.

Students will develop their practical and investigative skills further through a wide variety of experimental work.

Internal assessment is carried out through regular testing and end of year examinations.

The IGCSE is an excellent preparation for further study of any science subject. However, the course also promotes discussion and offers many interesting opportunities for students to develop their understanding of the sciences in everyday contexts.

SIXTH FORM

Biology, Chemistry, Physics and Psychology are offered at AS and A Level.

Students are encouraged to expand their understanding of the sciences through complementary activities such as university visits, field trips and events organised by the Science Society and the Harpur Science Forum.

Students are offered the opportunity of extension teaching which allows them to take their understanding beyond A Level.

The faculty offers excellent preparation for scientific study beyond A Level including courses in the pure sciences, engineering and medically related courses.



TESTIMONIAL

Billy Ching Leung MBBS BSc MRCS MSc DOHNS
OBM 1995 - 2005

Billy studied Art, Biology, Chemistry and Mathematics at A Level in BMS. He went on to study Medicine at Barts and The London School of Medicine and Dentistry and conducted his Foundation Training in London.

Billy has worked as a demonstrator supporting the anatomy classes at Kings College London, and is currently teaching undergraduate medical students at the University of Oxford where he is also a Trainee Oral & Maxillofacial Surgeon. He plans to study Dentistry to further utilise and develop his surgical experience.

Additionally, as a keen artist, Billy is training to become a medical illustrator. He has actively assisted those students at BMS interested in following Medicine by providing career talks and work experience opportunities.



"My time in Bedford Modern School was both enjoyable and pivotal, I experienced second-to-none teaching standards and facilities that complemented my academic goals. The science department was excellent in providing me with a solid science background prior to entering medical school. Since leaving BMS in 2005, the school has grown from strength to strength, delivering even better academic results. The school has a warm atmosphere with a supportive team of teachers, which is invaluable in preparing students for university and working life. My continued support to the school is a gesture of my gratitude to their nurture during my 10 years in BMS."

"I am a strong believer in education, the instilment of good fundamental values and attitudes are essential. Academia is not the ultimate goal; it is the drive and determination one should aim to achieve. I believe this school has the key ingredients in delivering such goal, as it sure did for me."