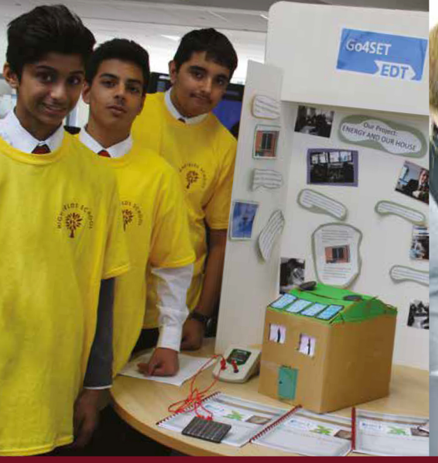

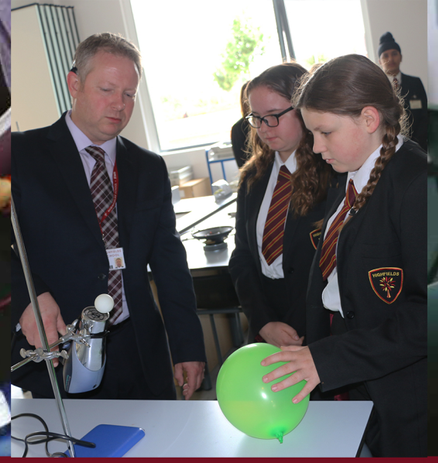

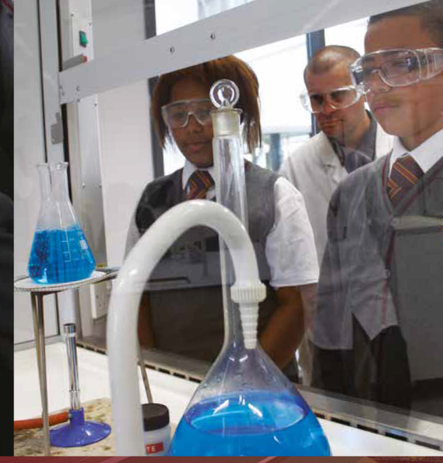

The **Mathematics/Science** Learning School

The Mathematics/Science Learning School is housed on the ground floor of the school building with spaces that are flexible enough to accommodate a range of teaching and learning styles ranging from 'formal' lessons to project-based and independent learning.

On some occasions students may find themselves being taught by just one teacher; at other times they may work through a carousel of activities with different teachers, or else in small break-out groups using spaces in the central 'Learning Commons'.

Whilst Mathematics and the various Sciences will be taught discretely, on many occasions there will also be opportunities for the development of cross-curricular work, often on a thematic basis.

Head of Mathematics/Science Learning School
Assistant Headteacher - Mr Wright

Head of Sixth Form Mathematics	Head of Upper School Mathematics	Head of Middle School Mathematics	Head of Lower School Mathematics	Head of General Science	Head of Biology	Head of Chemistry	Head of Physics
Mr R. Brewer	Mr D. Treble	Miss M. Staples	Mr T. Millard	Mr M. Lee	Mr P. King	Dr G. Sohal	Mr B. Mehmi

Above: Highfields' Maths/Science Leadership Structure

"We aim to bring the fun, beauty and awe of maths and science to as wide an audience as possible and in so doing, develop 'Twenty First Century innovators and thinkers through Mathematics and the Sciences'."

We equip our students with the mathematical, scientific and analytical skills that are so often required in the workplace. We recognise that the key to success lies in unlocking the potential of the individual student and that all students have different aptitudes and needs and so we offer a number of progression routes, particularly at Key Stages 4 and 5.

The Mathematics/Science Curriculum

Mathematics and the Sciences form part of the Core in the National Curriculum.

In Mathematics, all students will study aspects of number, algebra, shape, space and measures and also data handling throughout Key Stages 3 and 4. Students will be assessed at GCSE at either Foundation Tier (grades G to 5) or Higher Tier (grades 4 to 9) as appropriate.

Both Mathematics and Further Mathematics are offered at AS and A Level with personalised progression routes for students.

In Science, all students will develop scientific skills and various scientific themes during Years 7 and 8.

In Year 9 they will have lessons in each of Biology, Chemistry and Physics. This will develop to a number of personalised pathways at Key Stage 4.

Some students will continue with Triple Science to obtain GCSEs in Biology, Chemistry and Physics whilst others will study each of the subjects in slightly less depth and work towards 'Combined Sience' GCSE.

At Key Stage 5 we offer AS and A Levels in Biology, Chemistry and Physics along with the option of a more vocational BTEC Level 3 Applied Science course.

Enrichment Activities

STEM Club - Eco Action Team - Puzzles and Games Club - Junior Astronomical Society - University links including Cambridge University and the Royal Veterinary College London - out-of-lesson support and mentoring