



The
Henrietta
Barnett School

Sixth Form

Subject Information Booklet

Entry
September 2018

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Dear Student

Welcome from Head of Sixth Form

I am very pleased that you are hoping to join the Sixth Form at The Henrietta Barnett School.

The Sixth Form is for many girls the most exciting, memorable and enjoyable part of school life. You will spend this important time in the company of many interesting, lively, intelligent, creative and friendly people. There are plenty of opportunities for new beginnings, whether that be learning new subjects not studied at GCSE, taking on leadership roles and therefore new responsibilities, or simply just making new friends.

The Sixth Form is made up of students who have been at the school since Year 7 plus students from a range of other schools. We are very keen to ensure that all students are fully integrated into the Sixth Form and therefore we provide an intensive induction programme as well as individual guidance and mentoring.

After an initial settling in period, you will attend individual appointments at specific times with your tutor at pre-arranged times over the year. Your Form Tutor, Dr Knight, the Assistant Head of Sixth Form and I are very happy to advise you if you have any work-related or personal problems.

Sixth Form life at The Henrietta Barnett School ensures that all students are fully prepared for the challenges and opportunities of Higher Education and work in the 21st Century. Most of our girls proceed to higher education and the school has an excellent record of success in university entrance including Oxford and Cambridge.

Students study 4 A Levels for 2 years. We offer a wide range of subjects including new subjects not studied in KS4: Economics, Government and Politics, and Further Mathematics. Please see the page dedicated to each subject for a detailed description of the course. Please note that if small numbers opt for a subject, it may not run.

Students have the opportunity to do sport and there are also many extra-curricular activities such as service in the community, Young Enterprise and Duke of Edinburgh that you can get involved with, as well as many societies.

There are numerous opportunities to take on leadership roles in many areas of the school from running clubs and societies to being an academic mentor to younger girls.

Entry Requirements

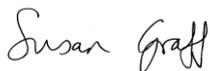
For all applicants, both internal and external, the minimum requirement is:

- (a) At least six grades 7 or above at GCSE (grade A or above in unreformed GCSEs)
- (b) At least a grade 6 in English Language and Mathematics, if these subjects are not being taken in the Sixth Form.
- (c) At least grade 7 (grade A or above in unreformed GCSEs) at GCSE in the subjects to be studied at A Level. For Further Mathematics an 8 or 9 (A* in the unreformed GCSE). For subjects not previously studied at GCSE, a grade 7 or above (grade A or above in unreformed GCSEs) in an equivalent subject will be required (please see the Sixth Form Information Booklet).

For external applicants, please see our website for additional important information on our application process.

For external applicants, the application form is an online document, which you can find on our website under Year 12 Admissions. The deadline for submitting the form is **5pm on Thursday 1st February**. Once you have submitted your application form, we shall email your school for a reference.

For internal applicants, the application form will be emailed to you via your school email address. The deadline for this is **Tuesday 20th February for internal applicants**.



Mrs Susan Graff
Head of Sixth Form

Advice on choosing subjects

There are several aspects worth considering when choosing your A Levels. It is important that you enjoy the subjects you are going to study, and that you are good at them, as you will be spending a long time studying them, and much more intensely than at GCSE level. With new subjects, which you will not have experienced before, it is advisable that you speak to people who are studying or have studied them and also to the Subject Leader, to get a sense of whether it would be something which interests you and which you would enjoy.

Whilst you have a free choice in which subjects you choose, it is worth bearing in mind which subjects you may need to study, if you are planning on studying a specific course at university. It is worth spending time on the UCAS website at www.ucas.com. There is an area called 'find a course' where you can look at universities and courses to find out which subjects are required or advisable in order for you to be able to apply for the courses you are interested in. In addition, you may want to look at the advice given by the Russell Group universities, which is a group of universities including Birmingham, Bristol, Cambridge, Oxford, Edinburgh, Imperial College and University College, London, Leeds, Manchester, Nottingham and others. These universities are committed to maintaining the very best research, an outstanding teaching and learning experience for students of all backgrounds and unrivalled links with business and the public sector. They publish guidelines about A Level choices in connection with universities and so these are very well-established and respected guidelines. You can find the information by visiting their website: www.russellgroup.ac.uk/informed-choices.

There are not many courses where specific subjects are suggested as beneficial or required, but here is a list of the most common ones our students apply for with the related subject:

Mathematics, Physics, Engineering and Economics: Mathematics and Further Mathematics.

Law: at least one essay subject. Some universities particularly like History or English, but others do not specify any subject at all.

Medicine and Dentistry: 2 Sciences from Chemistry, Biology and Mathematics. It is worth noting that Chemistry and Biology are required more than Mathematics.

Languages: at least one foreign language, but 2 would be beneficial.

Art

This exciting course is designed to enable you to develop skills in the following areas;

- 1) intellectual, imaginative, creative and intuitive capabilities, and the practical skills for communicating and expressing ideas, feelings and meanings in art, craft and design;
- 2) investigative, analytical, experimental, practical, technical and expressive skills,
- 3) aesthetic understanding and critical judgment;
- 4) understanding of the interrelationships between art, craft and design processes and an awareness of the contexts in which they operate;
- 5) knowledge and understanding of art, craft, design and media and technologies in contemporary and past societies and cultures
- 6) independence of mind in developing, refining and communicating their own ideas, their own intentions and their own personal outcomes

Examination Board EDEXCEL

Description of Syllabus 60% Coursework including written component, 40% Examination (internally marked and externally moderated).

Your coursework, in your work journals and elsewhere, should include research, supporting studies and work showing the development of your ideas and personal reflection and response leading to one or more outcomes - usually finished pieces of work. Your teacher will set you assignments and tasks.

In the first unit there is a written component of between 1,000 and 3,000 words on a theme of your choice, which will accompany and inform your practical art making in a very personal way. The Externally Set Paper will contain some suggestions for possible starting points and directions or areas of study, to help you develop your response and to give you ideas regarding your research. You will then have thirteen weeks in which to prepare for the timed test. During this time, you should explore the theme in your work journal and in preparatory studies - you can discuss it with your teacher- and prepare your response in your chosen specialism. At the end of this period, you will sit a 15 hour timed examination, during which you will produce your final piece(s) of work. Your preparatory and developmental work, along with your final piece, will then be submitted for assessment.

Type and Nature of Work Involved We will expect you to work with commitment over the course. Every piece of work will be relevant from the first day of the course. You will be given the opportunity to work in a wide variety of media and techniques and you will be expected to be open-minded. There will be much more emphasis on your personal opinion, developing confidence with your ideas and developing a more responsible and independent approach to your own learning. You will be expected to visit galleries in your own time. You will be expected to develop a critical awareness and be prepared to share and discuss personal opinions through your research and in class debate. As the course develops you will find out about your strengths and weaknesses. Your aim will be to build on your strengths and improve those areas, which need more work. You will be encouraged and supported throughout the course and it will be important for you to develop mature and responsive relationships with your tutors.

Exhibition	<p>The Culmination of your A Level year is the exhibition for the visiting examiner. Students will be allocated a display area and are expected to put up their work carefully with the correct labels. All work will be internally assessed by your teachers before the examiners visit.</p> <p>An open evening for students, parents, friends and school governors will be arranged. The display will also be used to inform and inspire younger HBS art students.</p>
Homework	<p>Students are expected to spend four and a half hours per week on homework assignments. It is important when you miss lessons; you find out on your return what you have missed. Preferably speak to or email your teacher. Failure to complete homework will result in you coming unprepared to your lesson and falling behind in work.</p>
Tutorial system	<p>Art is a time consuming subject and where possible we give you access to the studios to do extra work. The members of staff are also regularly available to assist you outside your lesson time should you require extra help. Always inform a member of the art staff before you use the facilities, materials or books and again when you have finished. You may not work in the studios unless you have permission. You need to be well organised and conscientious in order to cope with the wide range of activities and equipment that are part of the art course. You will need to be prepared for lessons with the correct materials and work.</p>
Opportunity & Challenge	<p>We encourage you to use the wonderful gallery resource provided by living in London as much as possible.</p> <p>We are very fortunate to be part of the Royal Academy Attract scheme which allows two students to gain free membership to the Royal Academy and take part in free workshops lead by some of the most well established art educators and artists in the country. Students can also enjoy curators talks, gallery tours and free entry into Frieze Art Fair.</p> <p>We have maintained additional links with established Art institutions such as the Tate and Royal College of Art. These links provide valuable opportunities for students to part take in workshops and work alongside artists.</p> <p>The department offers a residential trip once a year and will be taking students to Venice in February.</p>
Suggested Career Paths	<p>There are many things you can go on to do with a GCE in art and design. If you are unsure about what to do next, the best thing to do is to speak to your art teacher who will know about the choices on offer.</p> <p>You could go on to take a foundation year in a London art collage to study Art & Design, or apply direct to Degree courses in Art & Design or a related subjects such as Architecture. You might wish to go into a job where it is useful to have had experience of art, craft and design, or where you will need to use some of the skills developed during this course. These might include careers in such fields as advertising, marketing, design, architecture, publishing, Art Direction and the media. Whichever you choose, the study of Art can help you develop transferable skills, which you can take into any career or job.</p>

Classics: Classical Civilisation

Examination Board	OCR
Description of Syllabus	<p>There are three modules, each of which comprises the study of literature and visual sources:</p> <ol style="list-style-type: none">1. The World of the Hero: This module explores Greek and Roman epic, looking at the Iliad, Odyssey and Aeneid, three of the most influential works of literature ever written.2. Culture and the Arts: options include the study of Greek Theatre; Imperial Image; Invention of the Barbarian; Greek art.3. Beliefs and Ideas: options include the study of Greek religion; Love and relationships; Politics of the Late Republic; Democracy and the Athenians.
Type and Nature of Work Involved	<p>Lessons are based around discussion and interpretation of ancient literary and visual sources. Great emphasis is placed on developing the ability to analyse texts and artefacts with a scholarly precision, whether that be considering the extent to which Odysseus is a good leader or how aesthetically pleasing one finds the architectural sculpture from the Parthenon. Students learn to argue effectively, present their ideas coherently in front of the class, and write analytical and carefully structured essays.</p> <p>For students of Classical Civilisation in the Sixth Form there are opportunities to run Classics Society, which hosts visiting lecturers, edit the school Classics Magazine, and run and develop enrichment activities for KS3 and 4 (such as Mythology Club). There is a Sixth Form Classics trip to Greece, where we visit some of the most spectacular ancient sites in the Mediterranean, including Delphi, Olympia, Mycenae and Athens. There are also theatre and museum trips (especially the British Museum), cultural competitions (such as the international CICERO competition), and lecture days.</p>
Method of Assessment	The A Level course is assessed by three written examination papers, one for each module.
Suggested Career Paths	The skills developed by studying Classical Civilisation at A level or a degree in Classics are highly sought after. Students can enter a range of professions, including law, politics, the civil service, publishing, banking, and academia.

Classics: Latin

Description of Syllabus

The A level course comprises the study of the language and literature of the Roman world. Alongside the development of reading fluency in Latin, students also gain a greater insight into Roman history, society and thought.

The literature studied covers a wide range of genres, such as epic poetry, love poetry, history, legal speeches, and philosophy. Set texts read in Year 12 include the extracts of Virgil's masterpiece, the *Aeneid*, detailing the Trojan hero's struggle to reach Italy and establish the Roman race. Students also read extracts of Cicero's speech speeches condemning Mark Antony, the *Philippics*.

Type and Nature of Work Involved

Literature work is based on the discussion and analysis of the set texts. Students learn how to write commentaries on passages of Latin, explaining interesting features of the author's style of writing. Classwork revolves around discussion, debate and articulation of one's own interpretation of a text.

Language work involves extending one's knowledge of the grammar and vocabulary acquired at GCSE. In order to develop reading fluency, students read a wide range of Latin texts, thereby gaining a deeper understanding of Roman mythology, history and philosophy, with a particular focus on Livy and Ovid.

For students of Latin in the Sixth Form there are opportunities to run Classics Society, which hosts visiting lecturers, edit the school Classics Magazine, and run enrichment activities for KS3 and 4. There is a Sixth Form Classics trip to Greece, where we visit some of the most spectacular ancient sites in the Mediterranean, including Delphi, Olympia, Mycenae and Athens. There are also theatre trips, linguistic and cultural competitions (such as the international CICERO competition, and the Linguistics Olympiad), and lecture days.

Method of Assessment

The A Level course is assessed by four written examination papers, two for language and two for literature.

Suggested Career Paths

The study of Latin at a high level is seen by employers as providing many desirable skills, especially the ability to problem-solve and argue a case effectively. It is also useful preparation for the study of medicine, and complements the sciences as well as the arts.

Classicists are highly desired by employers and can enter a range of professions, including law, politics, the civil service, publishing, banking, and academia.

Design and Technology: Product Design

Examination Board

WJEC

Description of Syllabus

This course offers a unique opportunity for candidates to develop their capacity for imaginative, innovative thinking, creativity and independence. Problem solving and organisation skills are developed by designing and making products in a wide range of contexts relating to their personal interests. Knowledge, understanding and skills covered at GCSE level are extended, with greater emphasis placed on exploring the wider context of society and the environment, and on the relationships between designer, manufacturer and user in the world in which we live. The course offers many skills that are desirable in wider subject contexts and are transferrable to any number of different subjects and career paths. The course offers students the opportunity to become creative problem solvers, evaluative thinkers, project managers, independent enquirers and helps to develop an entrepreneurial spark.

The WJEC Examination Board specifically aims to provide opportunities for candidates to gain a very broad understanding of Design and Technology, and encourages them to develop critical thinking and interdisciplinary skills. It enables us to offer a variety of teaching and learning routes and to encourage students to explore a flexible approach to the course, which suits their individual interests and experiences. We employ a wide range of materials and equipment including CAD/CAM.

Who is it for?

Students who are considering further study or a career in a design or engineering field or architecture. Students who wish to specialise their design and creative work in areas such as Product Design, Resistant Materials, Graphic Design or Interior and exterior architectural design. Students who wish to broaden their post 16 studies to gain a fuller understanding of the world in which we live and to develop as discerning consumers able to make informed choices.

Anyone who wishes to develop skills which would prove useful and transferable to their main area of study. These include analysis, problem solving, project management, ICT and manual dexterity.

Students who are interested in or have an aptitude for design and want to explore the subject for a further one or two years.

Type and Nature of Work Involved

The A Level course consists of two units

1. Written Examination:

The examination includes a mix of structured and extended writing questions assessing students' knowledge and understanding of:

- Technical principles
- Designing and making principles

Along with their ability to:

- Analyse and evaluate design decisions and wider issues in design and technology.

2. Design and Make Task:

The sustained design and make project, based on a brief developed by the student, assessing their ability to:

- Identify, investigate and outline design possibilities
- Design and make prototypes
- Analyse and evaluate design decisions and wider issues in design and technology.

Method of Assessment

- 1 Examination Paper 50%
- 2 Extended Design & Make Project 50%

Suggested Career Paths

This course will aid entry into many careers involving design, including product design, architecture, engineering, graphic design, fashion design and interior design.

It also supports related fields such as media, computer technology and Electronics.

Economics

Examination Board	EDEXCEL
Description of Syllabus	<p>Economic issues provoke widespread discussion; for example, of unemployment, inflation, the environment, house prices, traffic congestion, globalisation, multi-national companies and the NHS. A Level Economics provides a basis for understanding these issues. Through the use of some basic theoretical models, and the development of your ability to think logically and critically, you will be able to understand and analyse day-to-day economic policy concerns more fully and evaluate proposed solutions.</p>
Type and Nature of Work Involved	<p>Economics can be taken in combination with any other subjects.</p> <p>Lessons are a mix of explanation, discussion, data analysis, and individual and group exercises.</p> <p>Homework consists of reading and research, data analysis, and writing structured essays.</p> <p>Although no prior knowledge of economic affairs is assumed, you will benefit throughout the course from reading appropriate newspaper articles, watching relevant television programmes and tapping into websites such as Tutor2U.net.</p> <p>All students are encouraged to attend the school Economics Society which meets regularly, is led by a committed group of Year 13 students and includes some meetings led by guest speakers.</p> <p>Many girls arrange work shadowing in areas which are related to Economics, for example, in banking, economic journalism and policy institutes.</p> <p>Visits to sixth form conferences are both instructive and enjoyable and the girls are encouraged to attend external lectures at, for example, the LSE and ERC</p> <p>Students develop communication, analytical and numerical skills, all of which are important for higher education and careers in, for example, journalism, finance, business and management.</p>
Method of Assessment	<p>Final assessment is by examination; there is no coursework. Assessment is via data analysis and comprehension, multiple-choice and structured essays.</p> <p>Many students find this mix of examination techniques stimulating and it provides opportunities to demonstrate a variety of skills.</p>
Suggested Career Paths	Management, the City, business consultancy, accountancy, business and economics journalism.

English Literature

Examination Board EDEXCEL

Description of Syllabus

English Literature is a very popular subject at A Level. We use the Edexcel course. There have been many changes to the course in the last year and we are very excited at the increased opportunities students have to study and compare a wider variety of texts, to write reviews and also to pursue their own area of interest in Year 13 in an independent study.

In Year 12, students will study firstly 'A Streetcar Named Desire' and Keats' poetry, followed by 'Wuthering Heights' and 'Tess of the D'Urbervilles'. They will also be studying a range of modern poetry.

In Year 13 they will be studying 'Othello' and working on an extended literary study which will allow them to write on two literary works of their own choice. This unit is one in which students are free to focus on one particular author, period or genre. As well as this there will be revision of texts studied in year 12 and work on Unseen texts.

Type and Nature of Work Involved

English lessons require critical thinking, and willingness to explore ideas, and to argue your point of view. We expect you to prepare and give presentations, and to research and work independently, both individually and in small groups. You will be encouraged to read round topics and to make use of material in the school library, on the internet and in outside libraries and bookshops. Independent reading and research and full participation in lessons are all vital.

Method of Assessment

We record your attendance, set regular reading, writing and oral assignments and give end of unit practice test questions. Our judgement is based on all of these and on your performance in lessons. The most vital attributes of a student of English Literature are, however, a genuine love of reading and the ability to analyse writers' techniques in a clear and accurate style. All texts studied are judged by final examination, excluding the literary study.

Suggested Career Paths

The complete A Level can qualify you for a wide variety of English courses at university and is also good for media and essay subjects such as History or Law. Graduates with English degrees go on to a wide range of careers in fields such as the media, the arts, Law and excel in all areas requiring high level communication skills.

Extra-curricular Activities

The English Department offers:

- A Sixth Form reading group
- An English extension group for those interested in studying English at university, these run on a regular basis.
- A wide range of theatre trips
- Study sessions with partner schools on particular themes, for example 'Love in Literature'
- Guest lecturers (recently from UCL and Cambridge)
- An English team running extra-curricular activities for the lower school
- Sessions with visiting poets and writers

Geography

Description of Syllabus

Geography examines the physical and human characteristics of the environments in which we live and our influence upon them. It covers a wide range of contemporary issues, bridging the gap between sciences and humanities. In addition, it covers a wide range of transferable skills, including presentations, problem solving and data collection.

Geography is one of the key “facilitating” subjects and is looked on very favourably by the Russell Group of Universities.

The Geography course is an issues based course. The course will be taught over seven periods a week by two teachers, each covering separate topics. There is a fieldwork requirement at A Level, for which students will attend a residential field trip in February, which usually takes place in the last week before half-term.

Type and Nature of Work Involved

Every Geography student in the country will study the core content listed below. Within the core content there are additional modules that allow flexibility as to what can be studied. The Optional Content table below shows some of the content that can potentially be studied. There is a good balance between the human and physical topics.

Year 1	Year 2
<ul style="list-style-type: none">• Tectonic Process and Hazards• Coastal Landscapes and Change• Globalisation• Regenerating Places• Fieldwork and Independent Investigation	<ul style="list-style-type: none">• The Water Cycle and Water Security• The Carbon Cycle and Energy Security• Superpowers• Health Human Rights and Intervention/Migration, Identity and Sovereignty.

Method of Assessment

Examinations will take place at the end of the two year course. There will be three examinations, of around 2hrs in length. The questions will vary between short responses and essay questions. Students will also undertake an Independent Investigation, which will be worth 20% of the overall A Level. This is suggested to be around 3000-4000 words in length.

Suggested Career Paths

Geography is a well-regarded traditional academic subject popular with employers because of the many skills that Geographers can offer. These skills open the door to many different career opportunities in the economic, social and environmental sectors of employment.

Government & Politics

Examination Board EDEXCEL

Description of Syllabus Politics is an essential activity in all societies. This course provides a study of British and comparative politics which will help students understand contemporary issues, including:

- Democracy and participation.
- Political parties.
- Electoral Systems.
- Voting behaviour.
- The role of the media.
- The Constitution.
- Parliament.
- Prime Minister and the Executive.
- Core political ideas in conservatism, liberalism, socialism and other ideologies.
- Theories of Global Politics including sovereignty and globalization, global governance, human rights and the European Union.

As well as giving a broad background to British and Global politics, the course also develops important skills such as critical thought, evaluation and analysis. All students participate in debates and presentations in lessons.

Type and Nature of Work Involved It is not necessary to have studied any particular GCSE subjects. Politics combines well with most subjects and offers a useful background for higher education.

A mix of teaching techniques is used: analysis of relevant and appropriate material, discussion and DVDs. Homework is usually essays, comprehension exercises or research.

No knowledge of politics is assumed at the start of the course but it is expected that students will keep themselves informed by reading suitable newspapers and watching/listening to relevant television and radio programmes. An eagerness to keep up with current affairs is essential.

Visits to outside lectures and conferences are organised, which prove both useful and enjoyable. There is also a trip to Parliament in Year 12. Some students arrange work experience which has relevance to the subject; in particular, in recent years, many have shadowed a Westminster MP.

Method of Assessment There are three examinations at the end of A2. They consist of essay and shorter questions. There is no coursework.

Suggested Career Paths Law, journalism, public administration and the media.

History

Examination board OCR

Description of syllabus Studying History at A level allows you to develop a deep understanding of the past, and to gain real insight into its people and events. You will study a period in detail and on its own terms, often by reading the words of key individuals who shaped historical developments. You will become expert at using, and evaluating, historical evidence. Your powers of analysis will be sharpened as you make judgements upon controversial issues. There will be plenty of opportunity to share your views, both in discussion and on paper.

Type and Nature of work Our course offers you the chance to consider the history of different countries and periods. It begins in France, exploring the explosive events which led to revolution in 1789. You will examine the consequences of the Louis XVI's fall, and gain a sense of why these events continue to shape European history. In year 12, you will also work on a study of modern British History, covering the period 1930-1997. This is a very exciting paper. You will study key political leaders, from Attlee to Thatcher, and think analytically about the changing nature of Britain in the later twentieth century.

In Year 13, there will be a study of a very different experience of revolution, in a unit which focuses on twentieth-century China. There will also be the opportunity to complete coursework based on independent research. This can be a very exciting part of the course, allowing you to develop an area of specialism.

Method of Assessment Written examination and coursework

Mathematics

There is no branch of mathematics, however abstract, which may not someday be applied to the phenomena of the real world.

Nicolai Lobachevsky

Examination Board	OCR
Aims	<ul style="list-style-type: none">• Develop the understanding of mathematics and mathematical process in a way that promotes confidence and fosters enjoyment;• Extend the range of mathematical skills and techniques and use them in more difficult, unstructured problems;• Develop an understanding of coherence and progression in mathematics and of how different areas of mathematics can be connected;• Develop an awareness of the relevance of mathematics to other fields of study, to the world of work and to society in general;• Take increasing responsibility for one's own learning and the evaluation of one's own mathematical development.
Description of Syllabus	<p>Studying Pure Mathematics will involve acquiring further skills in number, algebra and geometry leading to new topics including calculus, vectors and logarithms. This provides a common core for the A Level Mathematics courses. Knowledge of Pure Mathematics is essential for a thorough understanding of Physics and Chemistry.</p> <p>The Probability and Statistics will include work on representing data, probability, random variables and correlation. Statistics complements Economics, Biology, Geography and Psychology and it is also useful for Chemistry, History, Law and Medicine.</p> <p>The mechanics work will include work on forces, equilibrium, kinematics and Newton's laws. Mechanics goes well with Physics and is useful for Biology and Chemistry.</p>
Type and Nature of Work	<p>Mathematics A Level is demanding and success depends on a readiness to persevere in the subject, a conscientious approach to all work set and regular attendance throughout. The pace is fast and a firm commitment is required by everyone undertaking the course.</p> <p>A concept or topic is usually introduced and practised in a lesson and then you take work home to develop the idea and to improve your ability to apply it to problems by yourself. There are regular topic tests to monitor progress and understanding.</p>
Method of Assessment	<p>The A Level course will consist of three modules, one in Pure Mathematics, one in Pure Mathematics and Statistics and another in Pure Mathematics and Mechanics. Each module is assessed by a 2 hour written examination in May/June, Year 13. Each module is one third of the A Level Mathematics course.</p>
Suggested Career Paths	<p>Mathematics lends itself to any field and can enhance career prospects and earning capacity.</p>

Further Mathematics

Examination Board	OCR
Aims	<ul style="list-style-type: none">• Develop the understanding of mathematics and mathematical process in a way that promotes confidence and fosters enjoyment;• Extend the range of mathematical skills and techniques and use them in more difficult, unstructured problems;• Develop an understanding of coherence and progression in mathematics and of how different areas of mathematics can be connected;• Develop an awareness of the relevance of mathematics to other fields of study, to the world of work and to society in general;• Take increasing responsibility for one's own learning and the evaluation of one's own mathematical development.
Description of Syllabus	<p>Studying Further Pure Mathematics will involve acquiring advanced skills in number, algebra and geometry leading to new topics including complex numbers, matrices and further development of calculus. It is suited for those students who are interested in questioning the fundamentals of Mathematics and learning how to prove those concepts are always true.</p> <p>The study of Decision Mathematics includes algorithms, networks and planning. Decision Mathematics is recommended for those considering reading Computer Science, Management and Business related courses at university.</p>
Type and Nature of Work	<p>Further Mathematics A Level, as with other courses, is extremely demanding and success depends on an aptitude in the subject, a readiness to persevere and to work independently, a conscientious approach to all work set and regular attendance throughout. The pace is very fast and a firm commitment is required by everyone undertaking the course.</p> <p>A concept or topic is usually introduced and practised in a lesson and then you take work home to develop the idea and to improve your ability to apply it to problems by yourself. There are regular tests to monitor progress and understanding. Willingness to read around the subject is essential.</p> <p>Further Mathematics A Level must accompany Mathematics A Level.</p>
Method of Assessment	<p>The A level in Further Mathematics will consist of four modules, two in Pure Mathematics and two other ones are in applied mathematics (modules TBC).</p> <p>All modules are of equal weighting. Each module is assessed by a 1 hour 30 minutes written examination.</p>
Suggested Career Paths	<p>Mathematics lends itself to any field and can enhance career prospects. Further Mathematics, to at least AS level, is considered to be desirable for further studies (University level) of Natural Sciences (Physics or Chemistry), Engineering or Economics and strongly advised for any Mathematical degrees.</p>

Modern Foreign Languages

French, German and Spanish

Examination Board

AQA

Description of Syllabus

The new and exciting A level course is examined at the end of a two year course of study. The topics covered are of far greater intrinsic interest than GCSE and previous A Level specifications, and you will be as fluent in the language(s) as you can be by the end of the course without having lived in the country or countries. There is something for all students to explore and enjoy, topics that are much more developed and mature in nature. You will gain a very good insight into many aspects of the target language culture including its History, society, politics, film and literature. Each country has its own specific culture, so textbooks highlight many of these. This means the students studying two languages have different course content. The general topics are social issues and trends, political life and issues, and the study of either two literary texts or one film and one literary text. There are also translations into and out of the language which will be practised throughout the course. You will also carry out an Individual Research Project of any aspect of the target language culture that interests you. This will be discussed as part of the speaking test at the end of the two year course, and is a very exciting addition to A Level, as it will prepare you better for university study. You will have the opportunity to go on conferences, to the theatre and cinema, departmental trips, as well as inter-school debating competitions and other language competitions.

Type and Nature of Work Involved

Rapid vocabulary building and embedding GCSE grammar in different contexts. New grammar will enlarge and improve language skills immeasurably. Group work: role-play, solving problems, prioritising. Making presentations to the class. Working from video clips and actual target language news from the internet. Improvising and debating. Interpreting and translating. Research and wider reading in the library and on the internet. Keeping up to date with current issues using the internet and through purchased or online press.

Language Assistant

The target language will be spoken in the classroom. You will have a dedicated lesson in small groups with a native speaker, who will be working with you from October to May. This extra weekly lesson will improve your spoken fluency hugely in a relaxed and mutually-supportive setting.

Method of Assessment

Assessment is by examination after two years of study. There will be an internal examination towards the end of Year 12. There is no coursework.

Suggested Career Paths

Languages are an essential skill in many professions and regarded very favourably by all employers, as a linguist understands other cultures, having often lived in two countries, and is highly adaptable. Like many Arts subjects they are not necessarily vocational, apart from Interpreting, Translation or Teaching, but are extremely versatile to be used in any profession.

Music

Examination Board	OCR
Description of Syllabus	<p>As an A level Music Student you will continue to develop three distinct areas of music:</p> <p>Performing Music You will develop your performing and presentation skills to perform repertoire of your own choice. You may perform either as a soloist and / or in an ensemble, either notated or improvised performance. The 10-15 minute recital will be recorded towards the end of the course in Year 13.</p> <p>Composition You will extend your composition skills further to include some more formal study of harmony and compositional techniques, as well as exploring your own creative flair. Coursework submissions will include both technical studies and compositions.</p> <p>Listening and Appraising (40%) Through their study of a range of set works, A-level Music students will develop further their listening skills, both in terms of their aural ability and in terms of contextual and stylistic understanding. Compulsory Areas of Study: - the Instrumental Music of Haydn Mozart and Beethoven - Popular Song: Blues, Jazz, Swing and Big Band Two further optional Areas of Study e.g. 19th century Programme Music; Innovations in Music 1900-present day. This aspect will be examined at the end of Year 13.</p>
Type and Nature of Work Involved	The type of work will build on individual skills and preferences in the areas of Performance and Composition. Students will be expected to continue with instrumental lessons and practice. Close study of the set works and further development of composition techniques will develop theoretical understanding to a higher level, also linked to a practical approach.
Method of Assessment	<p>Performance recorded and sent off to be marked externally. Students record the recital more than once and select the better version for submission.</p> <p>Composition work is done as coursework and assessed externally.</p> <p>Listening and Appraising will be tested in a structured listening and written exam to include close reference questions on extracts, both from set works and from associated repertoire, as well as longer written answers.</p>
Pre-requisite Qualification	Grade 5 on an instrument, or equivalent standard. GCSE Grade A (possible exceptions - please enquire).
The Extended Curriculum and A Level Syllabus	A-level Music students benefit from the wide range of performing activities available at HBS and are expected to extend their experience with regular ensemble activities to inform and support all aspects of the course.
Suggested Career Paths	Music A Level is valued highly by universities and employers alike and can lead to a range of careers, either directly involving music, eg performing, composing, teaching, events' management, or supporting totally unrelated career paths. Recent A Level students have gone on to study Music at Cambridge, Manchester, Birmingham and Berkley (USA) universities, as well as other subjects such as Classics, Dentistry and Engineering.

Science: Biology

Examination Board OCR

Description of Syllabus

Module 1 – Development of practical skills in biology
Module 2 – Foundations in biology
Module 3 – Exchange and transport
Module 4 – Biodiversity, evolution and disease
Module 5 – Communication, homeostasis and energy
Module 6 – Genetics, evolution and ecosystems

Type and Nature of Work Involved

Biology is popular with students following a traditional Science/Mathematics post-16 course and with those who want to study a science subject in conjunction with humanities, arts or languages. Either of these pathways will open up a range of opportunities for further study. Recent students have gone on to study courses such as Biomedical science, Biochemistry, Conservation, Dentistry, Ecology, Human Sciences, Medicine, Ophthalmology, Physiotherapy, Psychology, Speech Therapy and Veterinary Science. A-level Biology is essential for most medical degree programmes.

Following a course in Biology will allow you to build on the skills, knowledge and understanding that you developed at GCSE. The course is interesting and enjoyable, whilst challenging you to probe more extensively into a wide range of biological topics.

You will attend two lessons of 70 minutes and one lesson of 105 minutes per week during which you will carry out practical exercises, discuss biological concepts and experience a range of learning activities. (NB - dissection is not required although most pupils find it fascinating). You will be expected to study independently to prepare for lessons and complete homework tasks.

All students are expected to attend a residential fieldwork trip towards the end of Year 12. This provides an excellent opportunity to develop fieldwork skills, study a variety of habitats and carry out assessed practicals.

Method of Assessment

There are no exams at the end of Year 12, all exams for A level Biology are taken at the end of Year 13. There are 12 formal assessed practicals, across the two year course, which are required to obtain the practical endorsement for Biology.

Examinations

1. Biological processes (100 marks, 2 hour 15 minutes written paper)
37% of total A level assesses content from modules 1, 2, 3 and 5
2. Biological diversity (100 marks, 2 hour 15 minutes written paper)
37% of total A level assesses content from modules 1, 2, 4 and 6.
3. Unified biology (70 marks, 1 hour 30 minutes written paper)
26% of total assesses content from all modules (1 to 6).
4. A level Practical endorsement in biology (non-exam assessment)

Suggested Career Paths

Biological Science, Medicine, Veterinary Science, Dentistry, Pharmacy, Environmental Science.

Science: Chemistry

Examination Board OCR

Description of Syllabus The specification involves chemical calculations but only GCSE standard Mathematics is required.

The teachers' aim is to stimulate and sustain the students' interest in and enjoyment of Chemistry.

Chemistry is the study of the elements and their compounds. It is a science subject, so practical work is an important part of the course.

Other subjects that would go well with Chemistry at A Level are Biology, Physics and Mathematics. However, very many other combinations of subjects are also suitable. You may be concentrating on the arts, humanities or modern language subjects and wish to take Chemistry to A level to broaden your studies by continuing to take a science subject.

With a qualification in Chemistry you could go on to further or higher education, studying Chemistry or one of the other sciences or related subjects, or work in science-based industry such as chemical engineering, materials science or biotechnology. It is essential for the medical field, pharmacy and environmental science. Chemistry is also a well-respected subject in its own right and suitable for entry into a wide range of other professions.

Type and Nature of Work Involved This subject has six units of assessment. All six units will be necessary for the A level. The course is a mixture of practical and theory with many interesting experiments. Formal examinations will all take place at the end of the two year course.

A Level Units

Level	Unit	Name	Weighting
A2	Module 1	Development of Practical Skills in Chemistry	37%
A2	Module 2	Foundations in Chemistry	
A2	Module 3	Periodic Table and Energy	37%
A2	Module 4	Core Organic	
A2	Module 5	Physical Chemistry and Transition Elements	26%
A2	Module 6	Organic Chemistry and Analysis	

Suggested Career Paths: Medicine, veterinary science, pharmacy, any of the biological sciences or any of the physical sciences, environmental science, engineering, even accountancy, law. Please note that A2 Chemistry is a compulsory subject for those wishing to study medicine.

Science: Physics

Examination Board EDEXCEL GCE in Physics (9PH0)

Aims	<p>The A level Physics course aims to:</p> <ul style="list-style-type: none">• Enable students to sustain and develop an enjoyment of, and interest in, physics and its applications;• Develop an understanding of the link between theory and experiment;• Develop essential knowledge and understanding in physics;• Be a suitable preparation for university courses in physics, engineering and other related courses.
Skills	<p>Students will develop the ability to:</p> <ul style="list-style-type: none">• Demonstrate safe and skilful practical techniques;• Make, record and communicate reliable measurements;• Analyse, interpret and evaluate the methodology and results of experimental activities. <p>It is essential that students understand that learning requires the active, constructive involvement of the learner.</p>
Description of Syllabus	<p>Advanced Physics I (9PH0/1) Assessment is a 1 hour 45 minute examination This unit involves the study of mechanics (rectilinear motion, forces, energy and power), further mechanics (momentum and circular motion), electric circuits (current and resistance, Ohm's law and non-ohmic materials, potential dividers, emf and internal resistance of cells, and negative temperature coefficient thermistors), electric and magnetic fields, and nuclear and particle physics</p> <p>Advanced Physics II (9PH0/2) Assessment is a 1 hour 45 minute examination This unit involves the study of materials (flow of liquids, viscosity, Stokes' Law, properties of materials, Young's modulus and elastic strain energy), waves and the particle nature of light (including refraction, polarisation, diffraction and standing waves), thermodynamics, nuclear radiation, gravitational fields and oscillations</p> <p>General and Practical Principles of Physics (9PH0/3) Assessment is a 2 hour 30 minute examination The examination draws on all areas of the specification, including synoptic questions and an assessment of experimental methods.</p>
Suggested Paths	<p>Physics, Aeronautical Engineering, Audiology, Computer Science, Engineering, Chemical Engineering, Mechanical Engineering, Civil Engineering, Physics and Management, Mathematics and Physics, Medicine, Biomedical Science, Biochemical Engineering, Architecture, Maths, Maths and Philosophy, Actuarial Science, Finance, Economics, Geography, Law and English.</p>