



King Edward VI

Camp Hill School for Girls

Sixth Form

Information Booklet

The Sixth Form Curriculum

Our School Vision is to provide a full range of quality experiences, within a forward thinking and supportive environment. We strive to develop independent thinking, mature students who achieve their best and make positive contributions to school and the wider community. We want every student to achieve their potential and enjoy their time at Camp Hill Girls School, and our wish is that they come here with the intention of working hard and participating in the range of academic, extra-curricular and social activities that we offer. We are proud to be able to offer a personalised and flexible curriculum in the Sixth Form, which offers students a combination of courses that meet their needs, interests and aspirations.

When deciding on the choice of subjects to study in the Sixth Form it is important to take GCSE grades and future career aspirations into account. Certain degree courses, such as medicine, have specific A Level requirements and this will inevitably influence students' decisions. We advise our students to talk to specialist subject staff before embarking on any A Level course, especially if it is a new subject being studied for the first time.

The government's phased reform of the Curriculum at Key Stage 5 is now complete, with all subjects delivering new courses. Mathematics, Further Mathematics and Politics were the final subjects to complete the reforms, beginning teaching new courses from September 2017. The first round of A Level results for those subjects will not be known until the summer of 2019.

The new structure of the A Level reforms means that courses are now linear with examinations taken at the end of two years of study. AS Levels have also been separated from A Levels, and no longer contribute towards the final A Level grade. All examinations include a 'synoptic' element, which means that students will be tested on content from both years of study. End of course examinations include challenging questions to allow the most able students to maximise their potential. An element of coursework has been retained in some subjects, but the overall level of such assessment has been reduced and is now confined to practical and expressive subjects.

Throughout the period of reform, we have been determined to ensure our students have flexibility and an opportunity to study a broad and balanced curriculum. We expect students embarking on Sixth Form study in September 2019, to select **four A Level subjects** from the start of Year 12. In the majority of cases, student then drop down to three subjects in Year 13 when the work is inevitably more challenging. We believe studying four subjects in Year 12 provides our students a degree of flexibility. For example, there may be a subject that they are enjoying more than they had hoped, or a subject they are struggling to make the transition to from GCSE. If students only started with three subjects it would mean they would be forced to continue with all of them into Year 13. More importantly, we genuinely believe our students are entirely capable of studying 4 A Levels in Year 12.

We are working hard to maintain a broad and balanced curriculum at KS5, despite the current financial constraints in education. Our staff and governors are committed to offering subjects such as Music, Art, Drama and Languages, among others, at A Level, so that our students have choice. Without these subjects, we believe we would narrow down our students' future options considerably, and we are committed to ensuring our school continues to be a diverse and exciting place to study.

Students will be assessed at the end of Year 12 in all four subjects they study, and these assessments will be a combination of AS and internally set examinations. In Year 13, all students will also have the option of undertaking the Extended Project Qualification (EPQ), which is equivalent to half an A Level.

The following A Level courses on offer are:

Creative & Performing Arts pg 4 - 6

Art & Design (Fine Art); Drama & Theatre Studies; Music

Humanities pg 7 - 10

History; Geography; Government & Politics; Religious Studies, Philosophy & Ethics

Literature & Languages pg 11 - 14

English Literature; French; German; Spanish

Mathematics & The Sciences pg 15 - 19

Computing; Mathematics & Further Mathematics; Biology; Chemistry; Physics

Social Sciences pg 20 - 21

Economics; Psychology

The Extended Project Qualification pg 22

Sixth Form Admissions Policy pg 23

Art and Design: Fine Art

Examination Board: OCR

Introduction

A Level Art and Design communicates ideas and feelings forming a language that compliments other more specific, mathematical or factually based subjects. It increases visual and aesthetic awareness and promotes independence in the skills and qualities of imagining, problem solving, analysing and sensitivity. The method of working demands individual initiative and independence, thereby promoting personal responsibility and self-discipline. Through the opportunities and achievements it provides, you will experience satisfaction and enjoyment, together with increased self-esteem and confidence.

The Course

As part of the AS and A Level, you will become familiar with new media and processes, and develop a wide range of skills through experimentation. Throughout your studies you will consider the work of other artists, designers and creative practitioners. You will be encouraged to respond to a wide range of sources and there will be a clear focus on independent learning and the realisation of your own ideas with a final piece of work.

Assessment

Your artistic outcomes in both Year 12 and Year 13 will be assessed internally in relation to the following objectives:

- Development of ideas
- Experimentation with appropriate resources
- Recording ideas and observations
- Presenting a personal and informed response

AS students are assessed at the end of Year 12 on the Externally Set Task. A Level students are externally assessed at the end of Year 13 on their Personal Investigation portfolio, and the Externally Set Task.

Additional Opportunities

An exhibition of work is mounted and externally moderated by a visiting moderator. Family, friends, students, staff and governors are invited to your exhibition day in the summer term, which is a prestigious and enjoyable event for all. An annual visit to art galleries in London is arranged and is recognised for its contribution to both the appreciation of art and design and to the development of skills and ideas in practical work.

Careers and Higher Education Art attracts not only students who see their future career to be in related fields of art and design but also those who see it as being a subject complementary to their other A Level choices. For many years, excellent results in A Level Art and Design have contributed to the successful attainment of places at universities in all subjects, including Medicine and Architecture. In the field of art and design, courses at university offer training for a wide range of specialist areas, including Fine Art, Animation, Architecture, Illustration, Photography, Advertising and Marketing, Interior Design, Fashion, Graphic Design and many more.

“Studying A Level Art helps you to develop intellectual, imaginative and creative skills. You will gain the opportunity to experiment and improve using a range of practical skills, but also learn about a range of artists and designers to help develop your critical judgement. Art allows you to explore your own ideas, in an independent but supportive environment.”

Drama & Theatre Studies

Examination Board: OCR

Introduction

Studying A Level Drama and Theatre Studies will enable you to:

- Gain an entry qualification for a variety of courses in higher education
- Develop vital life skills which will be recognised by institutions and employers
- Pursue your interests and develop your skills in a range of practical drama elements
- Work collaboratively with other students
- Analyse set texts and communicate ideas for performances in written contexts
- Choose your own areas of interest for research and work within a theatrical context.

The Course

This course is rich and rewarding; it requires independent research and learning and a desire to see and experience as much theatre as possible. Visiting the theatre is an obligatory part of the course. The course combines elements of written exams, and practical and written coursework.

Although aspects of the course are completed within groups, all marking is individual. Throughout the A Level course, students will study a range of set texts in order to respond to essay questions in written exams. Examinations will also require students to respond to the live theatre experienced during the course, and the set texts will be used as stimuli to create devised and scripted performance work.

Students will gain understanding of at least two practitioners when preparing for the written and practical aspects of the course and will apply their knowledge and understanding of these practitioners in their work.

Assessment

Assessment will be based on end of course written examinations (essay style answers) regarding the set texts studied across the course, and the live theatre examples seen. Students will also be assessed on internally examined performances of both a devised and scripted nature. These performances will be accompanied by a written component. All performances will be marked individually.

Additional Opportunities

Alongside participation in the department trips and visits students will be able to take part in a number of other additional opportunities including running of Drama clubs for younger years, participation in school shows and mentoring in main school lessons.

Careers and Higher Education

Opting for Drama and Theatre Studies at A Level does not mean that a student will necessarily be aiming for a career in performance. Previous students have used this qualification to gain entry into Oxbridge to read English while some have taken quite contrasting subjects at University such as Maths and Business Studies.

Many students have pursued Drama at Degree level in Universities or drama schools, which has included studying aspects of theatre outside of acting, including stage management and theatrical make up. There are many transferable skills to be gained from the study of Drama and Theatre Studies which are recognised by a wide range of institutions and courses, making drama and theatre studies an excellent choice at A Level.

"I look forward to every drama lesson. The teachers are so knowledgeable about what the examiners look for and the balance between written practice for the exams and the actual practical side of drama is great. I feel like I am delving into the different aspects of plays and productions; my understanding has grown and I definitely feel ready for the challenge of studying Drama at university."

Music

Examination Board: OCR

Introduction

A Level Music will develop a whole range of skills useful in preparing you for your future, such as confidence, oral and written communication, teamwork, presentation, problem solving, analytical, emotional and contextual awareness as well as purely musical talents. The course combines practical challenge and academic rigour and is ideal for the enthusiastic musician who wants to take their studies to a higher level.

The Course

Performing, composing and listening form the core of the work. At this level, performing takes the form of short video recitals and ideally should be at Grade 6 standard. Composing involves traditional 4-part harmony as well as free composition for instruments and voices. The course is jointly taught with Camp Hill Boys' School and classes are given in a relaxed but studious atmosphere in well-equipped specialist music rooms.

Assessment

Performing and Composing account for 60% of the assessment whilst Listening forms the other 40% at AS Level. A Level is similar but allows for a choice of greater emphasis on Performing or Composing. Performance is assessed via a recorded recital of pieces chosen by the candidate. Composition combines OCR-set briefs and candidate-chosen tasks. Listening is assessed via a written examination (AS-2 hours; A-Level-2.5 hours) combining aural questions and short essays on a range of topics including: Classical Instrumental Music, Jazz and Programme Music.

Additional Opportunities

The keen musician will already be involved in the numerous opportunities for music-making which exist at Camp Hill. Concerts in school and in Birmingham are supplemented by trips and specialist discounts for Symphony Hall events.

Careers and Higher Education

A Level Music can prepare you for a university degree, music college training or a vocational course. It broadens your academic base and is highly regarded by further educationalists and employers.

*It may be possible for strong musicians who have Grade 5 theory to join this course without having taken GCSE Music.

"A true venture into the world of music: it allows me to develop my skills in all areas; composing, analysing and performing, shaping me into an all-round musician and equipping me with valuable skills for post 18 study."

History

Examination Board: OCR

Introduction

History in the Sixth Form enables you to continue exploring the way people behaved, thought and felt in the past. You will have the opportunity to study some of the leading political figures of the twentieth century, their motives and far reaching consequences for society at the time and for our world today.

The Course

During the A Level course you will have the opportunity to study England in the Tudor period, 1485 – 1603. This study in breadth will allow you to examine a time of remarkable change, religious turmoil and some of English history's most memorable characters.

In contrast the in-depth study focuses on Russia, from the revolution in 1917 to the death of Stalin in 1953. The period covered is one of twentieth century history's most fascinating and turbulent periods, encompassing the extremes of human tragedy and achievement.

You will also undertake an historical investigation of 3,500 words considering reasons for German unification in 1871, within the context of a 100-year period.

You will find that lesson activities will be varied but the common element is participation. Discussion is an essential part of studying history so being a good listener as well as a good speaker is important. You will be given guidance and support in the skills of effective reading, note taking, essay writing and examination technique.

Assessment

Assessment is by two examination papers at the end of Year 13, and an historical investigation of 3,500 words.

Additional Opportunities

Previous groups have enjoyed visits to Berlin and the USA as well as attending student study days.

Careers and Higher Education

History at A Level is highly regarded by universities as a rigorous academic subject. The study of history opens doors to a range of careers in areas such as Law, Politics, the Civil Service, the Media, Business Management and Administration, Finance, Computing and Human Resources to name but a few.

"History allows you to explore the diversity of the human experience: how people have differed in their ideas and practices, and how their experiences have varied due to the period in which they lived, their nationality and their social circumstances."

Geography

Examination Board: Edexcel

Introduction

Geography is a wonderfully diverse subject that is relevant to our lives and experiences. You will have the opportunity to learn in a variety of different ways in order to gain a greater understanding of the world around us.

The Course

In the Lower Sixth the course consists of two main units:

- Area of Study 1: Dynamic Landscapes. This includes the study of tectonic processes and hazards, and coastal landscape systems.
- Area of Study 2: Dynamic Places. This includes the study of globalisation, and shaping places including regeneration and rebranding.

Fieldwork is an integral part of the course. Currently, all year 12 students attend two separate field days to Weston Bay, Somerset and Bristol in order to meet the requirements of the AS assessment.

In Year 13, the course offers the opportunity to broaden your knowledge of issues and changes in the wider world. You will study themes including Water Insecurity, Energy Security, Superpowers, Global Development and Climate Change Futures. You will also complete an independent investigation which is worth 20% of the final mark.

Assessment

At AS Level both units are assessed by a 1 hour and 30 minute examination. The questions contain a mixture of data response, investigation and evaluative skills. Fieldwork assessment is incorporated into the examinations.

At A Level, assessment involves two papers that contain a mix of short, open and resource-linked questions. The third paper is a synoptic examination using a resource booklet. All candidates are also required to complete an independent investigation which is marked in school.

Additional Opportunities

We have a long tradition of fieldwork in the department. Over the last eight years, many geographers have also enjoyed an exciting week in Iceland and we hope to continue offering this opportunity. We also encourage students to attend enrichment talks and workshops run through the Birmingham Geographical Association, which is based at our school.

Careers and Higher Education

Geographers are highly sought after by universities and employers due to their ability to analyse information in a variety of forms. Students with A Level Geography have access to a wide range of career and higher education opportunities, including Environmental Work, Surveying, Urban Planning, Medicine, Business Management, IT, Finance, Journalism, Cartography and Geographical Information Systems. Geography currently ranks third among the academic disciplines for the employability of graduates.

“Geography is a brilliantly diverse subject at Camp Hill. The balance between the human and physical aspects is just right and allows everyone to reach an all-round knowledge of this ever-changing and evolving subject.”

Government and Politics

Examination Board: AQA

Introduction

Has our Prime Minister got too much power? Is Jeremy Corbyn a realistic potential Prime Minister? Are we entering into an era of multi-party politics? What does Brexit really mean for Britain? Should the voting system be changed? What influence does ideology have on day-to-day life? These are some of the questions we grapple with in AS and A Level Government and Politics. If you have an interest in current affairs, then this is the course for you!

The Course

The AS course helps us to understand how our British democratic, representative political system works by looking at election systems, voting behaviour, political parties, pressure groups and parliament.

A Level provides an opportunity to study different ideologies, such as Socialism and Conservatism, the ways in which they affect British politics in practise and the also the potential to look at US politics, and how it differs from our system. This course will appeal to you if you enjoy being actively involved in the lesson, expressing your opinion in discussion, listening to a range of viewpoints and being aware of current affairs on a daily basis.

Assessment

Assessment at both AS and A Level is by terminal examination.

Additional Opportunities

In Year 12 there is an annual visit to London to visit the Houses of Parliament and the UK Supreme Court, as well as opportunities to question and debate with politicians at a local Democracy Forum.

Careers and Higher Education

The study of Politics will help you to develop a range of analytical skills and provides an excellent foundation for a range of university courses including Law. It is good grounding for those seeking entry to the Oxford Politics, Philosophy and Economics course and the Cambridge Social and Political Science course. As an A Level subject, Government and Politics provides an excellent combination with a wide range of subjects including History, Business and Economics, Geography, Languages, Religious Studies, English, Theatre Studies and Psychology.

“Studying Government and Politics in class has broadened my perspectives. After all, today’s politics is tomorrow’s history. It is such a relevant topic in our society, and helps us to gain a deeper understanding of what otherwise isn’t explained.”

Religious Studies, Philosophy & Ethics

Examination Board: AQA

Introduction

Religious Studies is a fascinating and intellectually stimulating course that encourages lively debate on religious, philosophical and ethical issues. Both AS and A Level courses are designed to offer an academic approach to the study of religion and be accessible to students of any religious persuasion or none. The courses demand and develop the skills of sustaining a critical line of argument and justifying a point of view. These skills will complement many other courses that you may be considering both for AS and A Level and ultimately, undergraduate courses that require conceptual thought.

The Course

There are two components:

Component 1: Philosophy of Religion and Ethics. The philosophy section includes the classical arguments for the existence of God, the problem of evil and religious experiences. The ethics paper includes an examination of contemporary issues such as abortion, euthanasia and capital punishment.

Component 2: A study of Buddhism which includes an examination of the Buddha's life and teachings and also looks at contemporary practice including the modern usage of Buddhist meditation as a form of therapy.

Assessment

The course is assessed through two examinations in the summer term. There is no coursework component.

Additional Opportunities

Whilst studying this course we aim to offer additional opportunities including conferences in Oxford and external lectures, at venues such as the University of Birmingham.

Careers and Higher Education

Religious Studies is a useful subject for a wide range of degree courses in the Humanities, Law, the Arts and Natural Sciences, including Medicine.

"The teachers who support you really make the topics engaging, and they're always available to help. This combination really ensures studying Philosophy and Ethics is hugely enjoyable."

English Literature

Examination Board: AQA

Introduction

If you are interested in people and in language, you will enjoy studying English Literature. It will teach you about the past, enable you to gain new perspectives on the world today, and you will engage with others in challenging literary debate.

The Course

We follow the AQA, A Level Specification A. The examination includes two examination papers which account for 80% of A Level marks. The texts we study are 'The Great Gatsby', 'The Color Purple', 'Wuthering Heights', Shakespeare's 'Othello' and the twentieth century drama 'Top Girls', 'Feminine Gospels' by Carol Ann Duffy, and a post-1900 poetry anthology. There is also a non-exam assessment in the second year which will require students to critically compare two texts, 'The Importance of Being Earnest' and a post-1900 text of the student's own choosing. Students will have to produce an extended essay of 2500 words; this will account for 20% of A Level marks.

We also follow the AS Level course in the first year.

We run a number of English groups per year, each group having nine lessons over the fortnight, taught by two teachers. Various teaching methods are used to accommodate a range of learning styles, from supported self-study through individual tutorial guidance to whole class or small group discussion. Students will often be required to prepare material or responses and to present these to the rest of the group. Collaborative work is important. You will need to read widely and we expect that you will use libraries as a matter of course.

Assessment

The new A Level qualification is linear and all examinations will take place at the end of the A Level course.

Additional Opportunities

There will be opportunities for extra-curricular activities such as reading groups, public speaking and visits. We believe that trips to the theatre, conferences, films and workshops are an important part of the course. We hope that you will attend as many as possible and seek out others for yourself.

Careers and Higher Education

Your A Level English qualification will be invaluable when applying for university courses as you will have communication and analysis skills - essential qualities in any professional career.

"I have thoroughly enjoyed my English A'Level course. The texts are really varied and you learn so much not just about the novel, play or poem at hand - but about history, social development and different ways of approaching literature. I always looked forward to English lessons: the discussions were so interesting and really stretched my thinking."

(CHG English A'Level student, 2018)

French

Examination Board: AQA

Introduction

French A Level is an ideal choice if you wish to further your knowledge of French culture and society, as well as developing the traditional skills of speaking, listening, reading and writing. It is a flexible subject offering many opportunities and an in-depth analysis of French political, educational, historical and cultural issues. In addition, the unique personal and communication skills developed in the advanced study of a language are highly regarded by universities and employers. You will need to be well organised, consistently disciplined in your approach to learning vocabulary and practising grammar and prepared to keep abreast of current world developments.

The Course

Using a range of up-to-date course materials, we explore many aspects of the French way of life, culture and current affairs using the spoken language in class, listening to native speakers and reading authentic texts. The syllabus covers a wide variety of topics, all reflecting modern-day France, such as artistic and political culture, current trends and issues. You will learn how to express yourself in a more sophisticated way and you will be able to give your opinions in French on complex matters. You will also have the opportunity to study French film and literature as a core component of the course.

Assessment

The course is linear and all examinations are taken at the end of Year 13 to include an oral examination and two written papers incorporating listening and reading comprehension tasks, translation into English and into French and two critical essays based upon literature and/or film. We also currently offer all students the opportunity to sit the AS examination at the end of Year 12.

Additional Opportunities

To provide further practice in the French language you will meet the French Assistant at least once a week in small groups. There is also the chance to take part in a cultural visit to Lyon which runs every two years. We discover the region and learn about French cultural life as well as practise the French language. We have a wide selection of novels and self-study materials in the department and encourage students to read as widely as possible in French. We also recommend that students subscribe to a French magazine and take advantage of the department's extensive lending library.

Careers and Higher Education

The ability to understand and communicate in French is widely valued by many employers. France is one of the foremost trading nations in the world and is a major player in world and European politics. Some of the many career paths for which French is an asset are International Banking and Finance; International Sales and Marketing; Law; Travel and Tourism; the Diplomatic Service; Translation and Interpreting; work within the European Union; the Civil Service; Public Relations and Education.

"I have always really enjoyed learning languages. I continued with French at A Level both for the challenge and for the chance to discuss so many contemporary themes. I'm going to combine French with History for my degree at university."

German

Examination Board: AQA

Introduction

German A Level is an ideal choice if you wish to further your knowledge of German culture, society and politics as well as build on traditional speaking, listening, reading and writing skills. This is a challenging and intellectually rewarding course, and as with the study of any language at advanced level you will need to develop and update your contextual knowledge on many issues.

The Course

You will develop your knowledge of the German-speaking world and the German language to a more sophisticated level through diverse topics including artistic and political culture, current trends and issues. You also learn more about the geography of Germany, German history and the German-speaking media, with emphases on film, literature, poetry, art, architecture and music.

Assessment

The course is linear and all examinations are taken at the end of Year 13 to include an oral examination and two written papers incorporating listening and reading comprehension tasks, translation into English and into German and two critical essays based upon literature and/or film. We also currently offer all students the opportunity to sit the AS examination at the end of Year 12.

Additional Opportunities

You will need to be well organised, consistently disciplined in your approach to learning vocabulary and practising grammar. A range of materials is available to support you, including a course book and a range of supplementary, bespoke materials produced by your teachers and the German Assistant. There are newspapers and magazines available and the department has an extensive lending library. Written stimuli such as newspaper articles, presentations, conversations and written pieces on contemporary issues are used to assess your development along the way. In addition, students spend time with our German Assistant in small groups at least once a week, developing oral skills in a more informal way. We have a well-established exchange with a school in Weiden in Bavaria which students are encouraged to participate in.

Careers and Higher Education

It is possible to study German with almost any other subject to degree level, such as Physics, Chemistry, Biology, Engineering, International Law or Tourism. The ability to understand and communicate in German is highly valued by many employers who are keen to recruit the few qualified people in the UK. Germany is an economic powerhouse, a key player in European and world markets so this language is a great asset for anyone interested in working in International Banking and Finance; International Sales and Marketing; Law; Travel and Tourism; the Diplomatic Service; Translation and Interpreting; the Civil Service; Public Relations and Education.

“For me, German has been an umbrella subject, in that it has overarched so many of my interests: music, art, history, the environment, medical ethics... the list is endless. To have travelled is fabulous, but to have developed my ability to discuss things so close to my heart in German really has been the icing on the cake.”

Spanish

Examination Board: AQA

Introduction

Studying Spanish at A Level gives students the chance to further develop their knowledge of Spanish-speaking culture, politics, history and traditions. We follow the AQA specification which offers students the opportunity to demonstrate their developing ability in speaking, listening and writing. Students will need to be well organised and consistently disciplined in their approach to learning vocabulary and practising grammar.

The Course

We use a wide range of contemporary materials to broach many thought-provoking themes, such as artistic and political culture, current trends and issues, literature and film of the Spanish-speaking world. As with the study of any language at advanced level you will need to develop and update your contextual knowledge on many issues.

Assessment

The course is linear and all examinations are taken at the end of Year 13 to include an oral examination and two written papers incorporating listening and reading comprehension tasks, translation into English and into Spanish and two critical essays based upon literature and/or film. We also currently offer all students the opportunity to sit the AS examination at the end of Year 12.

Additional Opportunities

To immerse students in the Spanish language and culture we have developed a link with Salamanca and students will have the chance to visit this beautiful and deeply historical area of Spain during the course. Within the department we hold a vast number of resources, including magazines, books and self-study materials. We encourage pupils to read authentic Spanish as much as possible. Students will also spend designated time at least once a week with our Spanish language assistant, with the aim of perfecting their spoken Spanish.

Careers and Higher Education

In terms of its number of native speakers, Spanish is second worldwide only to Mandarin Chinese. The ability to understand and communicate in Spanish is widely valued among employers in many areas, for example in Finance and Banking; International Sales and Marketing; Pharmaceuticals; Law; Travel and Tourism and the catering industry at all levels, from sourcing produce to its import and export. Studying a language at advanced level will help you to develop the kind of personal and communication skills so highly prized by universities and employers. There are simply no limits to the possibilities open to you if you incorporate languages into your studies!

“Studying Spanish at A Level has definitely been one of my most challenging subjects, but one of the most enjoyable: it has allowed me to experience other cultures, ideas and points of view, and has opened up the possibility of working or perhaps studying overseas, later in life.”

Computer Science (A Level)

Examination Board: OCR (H046/H446)

Introduction

While most people use computers much like drivers use a car, Computer Science is more like learning how the car works, how to keep it running and potentially how to build a better one. Some of the concepts covered have some overlap with some of the decision maths covered as part of Further Mathematics A Level.

We offer a choice of two options in Y12. Both are currently taught as a mixed class with Camp Hill Boys. One year A Level option (completing at end of Y12): This is for students who have already completed AS Computer Science (which is offered as an option in Y10-11).

The year involves working on the programming project and developing knowledge beyond that studied for AS Level. We will explore additional concepts and develop more links between different parts of the syllabus.

Two year A Level option (conventional A Level route): In Y12 we will study AS material. At present girls have the option of sitting two AS exam papers (each 75 mins) at the end of Y12 and finishing with an AS Level (H046), or taking an internal exam and continuing for the remainder of the two year course (H446). For Y13 studies will be as described in the one year option.

The course

Lessons will be split into practical sessions where you will be supported in developing your coursework project and theory sessions where you will learn about topics that will be covered in the examinations.

You will be expected to have an interest in the subject and to keep up to date with current technological developments. Some experience of coding (any language) would be sensible. Previous study of Computer Science (rather than ICT) at GCSE level is also advisable, although not essential if you have a genuine interest in the subject.

Assessment

The course consists of three units:

- Computer Systems (40%) – assessed via a 2½ hour written exam
- Algorithms & Programming (40%) – assessed via a 2½ hour written exam
- Programming Project (20%) – coursework

The written exams re-examine content covered at AS Level as well as the additional content required for A Level. The project asks you to build a working computer-based solution to a real person's problem and will require significant coding skills.

Additional Opportunities

Computer science students are trusted members of the school community and may be granted additional opportunities to experiment and explore the workings of computer systems that are not open to other students.

Careers and Higher Education

Computer science is a technical subject that is closely related to maths and engineering and is undoubtedly a strong qualification for those intending to study the subject at higher level in

the future, or as part of any other technical subject. For those not intending to progress in this direction, a qualification in computer science clearly shows that you have strong technical skills and a logical approach to problem solving. Undertaking the project provides evidence that you have the time management and technical skills to thrive in academic and professional life. For those taking the one year course you will have completed the course and received a final grade by the time you apply to UCAS. Computer science is one of the current successes of British industry. It is believed that future numbers of graduates are not sufficient to fill the jobs likely to be available and that students with these skills will be in demand. Numbers of women in this field have traditionally been low and highly skilled female computer scientists will be well placed for success.

“Program or be programmed: technology has an ever increasing impact on all of our lives so take Computer Science and influence the future!”

Mathematics & Further Mathematics

Examination Board: Edexcel

Introduction

Mathematics is an incredibly popular option in the Sixth Form at Camp Hill. It is a challenging subject which offers a great deal of enjoyment and satisfaction in its own right, while offering useful support for a range of other A Level subjects.

The Course

Mathematics in year 12 involves the study of pure mathematics and a combination of mechanics and statistics (applied mathematics). Mathematics in year 13 involves studying additional pure and applied content. Pure mathematics builds on GCSE knowledge (including algebra, trigonometry and sequences), while some new concepts are introduced (for example differentiation, integration and logarithms). Statistics builds on the handling data and probability work done at GCSE while mechanics is largely new content.

You may choose to gain an additional A Level in Further Mathematics by studying further core mathematics and additional options in applied mathematics. The further core work builds on the work done in the single A Level course, however the courses are co-teachable.

Assessment

AS Mathematics is assessed through two papers, a 100 mark pure paper and a 60 mark applied paper (split 30 marks statistics and 30 marks mechanics). Full A Level is assessed through three papers, two 100 mark pure papers and one 100 mark applied paper (again split 50/50 between statistics and mechanics). Further Mathematics will be assessed with additional core and applied papers depending on exact option choices at A Level.

Additional Opportunities

All students studying mathematics in the sixth form have the opportunity to enter the Senior Maths Challenge and the Mathematical Olympiad for Girls, national competitions run by the United Kingdom Mathematics Trust. We circulate information about numerous lectures and master classes run by other schools and universities, all of which provide the opportunity to think outside the syllabus areas and some of which are residential. Students studying Further Mathematics are given a reading list which they are encouraged to read and discuss.

Careers and Higher Education

Mathematics can be combined at degree level in a variety of options and Further Mathematics is excellent preparation for studying mathematics, Engineering or Physics at university. Mathematics equips you with logical and analytical skills highly sought after in many sectors of the economy, such as Business, Industry and the Civil Service. In this technological age, a qualification in mathematics is very much in demand.

“In most sciences, theories are thought of and discarded, whereas mathematics is the only science in which theories are built upon and further developed, making it all the more interesting to study.”

Biology

Examination Board: AQA

Introduction

Biology is the study of living organisms; from the structure and function of their cells to how different species have evolved and the different relationships between them. A Level Biology takes the knowledge learnt at GCSE and develops a more satisfying depth of understanding that prepares students for the study of any biology related degree course at university. Life demonstrates great variation, and therefore the challenge of biology is to apply this understanding, making links between different ideas and being analytical in order to explain our observations of the living world around us.

The Course

The Year 12 course involves the laying down of foundations for the successful further study of biology. You will learn about a variety of biological molecules, such as proteins, lipids and sugars, and the structure of cells and their components. The course continues by looking at the different ways in which organisms exchange materials with their environment and how genetic information determines characteristics and is passed on to new cells.

In Year 13 the biochemistry and cell structure of Year 12 is applied to understand photosynthesis and respiration, as well as how organisms respond to their environment and regulate the expression of their genes. The study of biology is also taken to a larger scale by learning about populations and ecosystems, and of course, Darwin's theory of Natural Selection.

You will experience a range of activities that will ensure your understanding of complex concepts. We aim to make sure that the course is both enjoyable and intellectually satisfying, developing your depth of understanding, practical and analytical skills. The Biology department is well qualified, enthusiastic and committed to helping you to achieve your potential.

Assessment

You will be assessed at the end of Year 13 by three two hour written papers. The first paper will assess your understanding of topics studied in Year 12, and paper two will test topics from Year 13. The final paper will assess topics from the whole of the A Level course including analysis of data and a synoptic essay. The skills you have developed on practical work will be assessed in all three papers.

Additional Opportunities

A Level Biology students broaden their understanding by attending lectures at the University of Birmingham, and some will enter the Society of Biology's Olympiad. Some students will help at Science Club and some will become subject champions, promoting the subject to younger students. There is also support for students who are applying for healthcare related courses.

Careers and Higher Education

Biology will help you to gain entry into Higher Education to study Biological Sciences, Natural Sciences, Genetics, Psychology, Physiotherapy, Medicine, Dentistry, Agriculture, Biochemistry, Pharmacy, Veterinary Science and other related courses.

“There is such a wide breadth of topics covering from microscopic life where you can look into the workings of a cell and DNA to learning on a larger scale how human and animal populations evolve and grow.”

Chemistry

Examination Board: AQA

Introduction

Chemistry is the study of the composition and properties of matter. It seeks to investigate and explain why substances will react together via chemical reactions. Chemistry overlaps and supports the study of Biology and Physics and is often referred to as the central science. The topics studied range from theoretical aspects such as atomic structure through to practical applications such as the production of Kevlar and hydrogen fuel cells. Chemistry is a well-respected and rigorous academic subject. Successful chemistry students need to be able to link key ideas and support their ideas with evidence and mathematical precision.

The course

Throughout Year 12 students extend their understanding of topics such as amounts of substance, patterns in the periodic table and equilibria, and are introduced to ideas such as oxidation states and organic mechanisms. In Year 13, the course builds on this foundation by extending the students' ideas about organic, inorganic and physical chemistry. It is a practical subject and throughout both years the students' develop an array of skills based on the experiments completed in class.

Assessment

At the end of Year 13, students will sit three written examinations which make up 100% of their final mark. The inorganic, organic and physical chemistry is split between the three papers, however paper three has a greater synoptic element and assesses a larger percentage of the practical material. Approximately 15% of the total A Level marks available are focused on practical skills, and all students will be required to complete 12 key practical activities throughout the two-year course.

Additional Opportunities

All Year 12 chemists can apply to attend lectures at the University of Birmingham to extend their wider knowledge of the subject and allow them the opportunity to hear some extremely well-respected speakers. Our students can also choose to participate in the Cambridge Chemistry Challenge, a written paper set by the university to spark interest in the subject and provide challenge for the brightest pupils.

Careers and Higher Education

Chemistry is a necessary requirement for many subjects such as Medicine, Dentistry, Veterinary Science, Pharmacy and obviously the study of Chemistry, Biochemistry and Chemical Engineering at a higher level. Studying chemistry also develops useful transferable skills in areas such as problem-solving and numeracy which means that it is a valuable subject for students moving on to study subjects such as Accountancy and Law.

"Chemistry incorporates everything from e-numbers to crude oil and allows me to fully understand how things work at an atomic level. I love chemistry because I can learn about why things behave the way they do."

Physics

Examination Board: AQA

Introduction

Physics is an interesting and challenging A Level subject which will enable you to understand how the principles of physics are used in current technology. For example, understanding why the nucleus sticks together, how we use antimatter in hospitals and how we use our knowledge of physics to diagnose and treat cancer patients. Theory of physics ranges from the large scale universe and Big Bang to the tiny world of quarks and quantum physics. All are covered in the course.

The Course

Throughout Year 12, students will have the opportunity to develop their understanding of the foundations of physics principles and to gain an increased depth of knowledge on the key ideas. They will learn a variety of topics, including: Measurements and their errors; Particles and Radiation; Waves; Mechanics and Materials, and Electricity. In Year 13 students will extend on the solid foundations formed in year 12 and utilise their independent, group work and problem solving skills to make progress in both familiar and novel topics, such as fields and further mechanics, nuclear and molecular physics and radioactivity as well as the option unit of Medical Physics. You will be taught in a purposeful yet relaxed atmosphere in lessons which take place in a well-resourced laboratory.

Assessment

Practical work is a key component in the new A-Level course and all students will be required to complete 12 key practical activities throughout the two-year course which comprises approximately 15% of the total A Level marks. There will be three written examinations at the end of year 13 which assess course content, the final paper predominantly assesses progress on practical content and the optional topic.

Additional Opportunities

Students are encouraged to attend a series of lectures on topics given by invited speakers at the University of Birmingham. This aims to enhance the understanding of AS and A Level topics and give students the opportunity to hear from very experienced and talented Physicists to gain a broader knowledge of the subject. Students are also given the opportunity to take part in the British Physics Olympiad which is a national competition which develops problem solving, report writing and investigative skills. Master classes are also available for students to attend at the University and there will be the possibility of external trips such as the Diamond Light source and CERN.

Careers and Higher Education

Physics A Level is very useful for many careers, including Medicine, Optometry, Radiography, Physiotherapy, Engineering, Dentistry and Financial Services. The skills you acquire undertaking a degree in Physics are appreciated by many employers.

“In Physics at Camp Hill you learn about the universe from the smallest subatomic particle to the largest stars.”

Economics

Examination Board: Edexcel (Economics B)

Introduction

This course introduces students to economics through building core knowledge of microeconomic and macroeconomic theory, and by investigating economic theory through real-world businesses and the environments in which they operate. We study issues including:

- How the state of the economy affects people and businesses
- How government decisions affect people and businesses
- Why some markets work better than others, and the role of government intervention
- How international businesses operate
- How increasing globalisation and trade contribute to economic development
- How globalisation affects companies, national economies and people
- Risk and the financial sector

No previous subject knowledge is required, just an open mind, an interest in current affairs and an eagerness to learn more about the world around you. A good level of written English and sound mathematical ability are needed.

The Course

We use a variety of teaching methods to encourage independent and flexible learning. You will: participate in class discussions, make presentations to the group, analyse data, undertake mini-projects and investigations, evaluate case studies, practice essays and data response questions and use IT independently both in and out of lessons.

Assessment

The A Level is assessed by three examination papers at the end of Year 13, comprising of data response questions, longer answer responses and questions based around a pre-release context document. At AS, assessment is by two examination papers at the end of Year 12, comprising of both data response and longer answers.

Additional Opportunities

Visits and competitions are organised to support the course and to widen your economic knowledge. Competitions include: management consultancy tasks in the ACCA challenge, the ICAEW Inter-schools Business Challenge and the Eureka Challenge at the University of Birmingham Business School.

Careers and Higher Education

Whilst not a 'facilitating subject' Economics is viewed favourably as a 'preferred subject' by the Russell Group universities (Russell Group: Informed Choices). In addition to Economics students pursue university courses including Management, Law, Accountancy & Finance, Journalism, Politics, Medicine & Dentistry and many others. Career options could include management in a wide variety of industries including finance, law, retail, industry, engineering and journalism.

“Economics is the foundation of the modern world. It allows me to be a part of and understand government decisions and actions in regards to their current economic situations. I have begun to develop analytical skills which I know will be fundamental for life after Sixth Form.”

Psychology

Examination Board: AQA

Introduction

AQA Psychology A Level introduces students to a broad range of psychological topics. The emphasis is on applying knowledge and understanding, thereby developing students' transferable skills of analysis, evaluation and critical thinking.

Core areas of psychology are studied as well as current issues and debates in the field. These include: Cognitive Psychology (memory and forgetting), Developmental Psychology (attachment theory), Biological Psychology (including brain function and biorhythms), Social Psychology (conformity and obedience) and Psychopathology (including depression, phobias and suitable treatments).

Students will develop a critical understanding of research methods and techniques of data handling including statistical analysis. Stress, addiction and gender are the options studied in year 13 along with issues relating to gender, culture and debates surrounding reductionism, nature/nurture, free will and determinism. A good level of written English and mathematics is required.

The Course

Psychology is taught through a variety of teaching methods to encourage independent, creative and flexible learners. Students will make presentations and posters to share with their peers, analyse data, research novel topic areas, participate in class discussion and in order to enhance their examination technique they will answer many past papers. There are a variety of on-line quizzes and short films made by other students to enhance understanding.

Learners are encouraged to find memorable ways to recall information through the use of mnemonics and even song!

Psychology is a popular choice at A Level as it is frequently a new area of study for students and sits between the traditional sciences and humanities subjects. Approximately a fifth of the course covers biological and neurochemical influences linking neatly to scientific areas of study and debates touch on philosophy and ethics. Data and statistical analysis links not only to mathematics but to subjects such as geography and history, making it an excellent choice as a fourth subject.

Assessment

Assessment is through a combination of multiple choice, short and extended answer-style questions via three 2 hour papers for A Level, and two 1 ½ hour papers at AS Level.

Additional Opportunities

Enrichment opportunities are available to extend learning beyond the curriculum including attendance at conferences. Occasionally, theatre and cinema opportunities arise and these are always well attended.

Careers and Higher Education

A significant number of our students go on to study Psychology at HE level at Russell Group universities. Other examples of further study include: Law, History, Politics, Business, Medicine, English, Dance, Art and Biomedical Sciences. Career options are limitless and psychological understanding is required in most fields whether that is management, teaching, law, medicine, local or national government, journalism, the Arts, the armed forces, diplomatic service and even banking and finance.

The Extended Project Qualification (EPQ)

Examination Board: AQA

The Extended Project Qualification is a free standing qualification in its own right, and is offered to students in Year 13. Those who opt to study the EPQ are given free choice to identify an area of intellectual interest, which must be separate from their A Level subjects, and then plan, research, evaluate and present an independent project.

Projects cover a spectrum of disciplines and require students to develop the independent learning skills and confidence which will be essential for university.

Sixth Form Admissions Policy

Almost all of our Year 11 students choose to take their A Levels at Camp Hill, and we are also joined by a large number of students from other schools. Admission is based upon an assessment of the student's potential to benefit from the curriculum and facilities offered by the school. This assessment is based primarily upon the student's educational record, including actual or anticipated examination results, with particular reference to achievement in the intended and related areas of study, and may include a school visit.

To achieve entry into the Sixth Form in September 2019, prospective entrants, both existing students and external candidates must achieve:

- **Six GCSEs at grade 6 or above**, including English and Mathematics
- **Grade 8 or above in Biology, Chemistry and Physics** if students wish to study any of these subjects at A Level
- **Grade 7 or above** in any other subject (or related subjects) that students wish to study at A Level
- Subject to availability of places on specific courses, **a grade 6 may be considered**. Please note: this does not apply to the science subjects.

Offers of places in the Sixth Form will be conditional on achievement of these results and capacity on chosen courses. Please note: These entry requirements may be adjusted in light of the national picture for numerical grade outcomes in the summer of 2019.



King Edward VI

Camp Hill School for Girls

Sixth Form

Information Booklet

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