



**JOHN
LYON**
HARROW-ON-THE-HILL

**SIXTH FORM
OPTIONS**
2019 - 2020

www.johnlyon.org

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AMBITION

A John Lyon boy will aim high and exceed expectations.

A John Lyon boy has a can-do ethos. Ours is a culture that encourages boys to ask more, want more and push themselves to their limit. Small form groups, specialist teachers and a supportive culture create an environment in which boys are motivated and ambitious. A John Lyon education enriches and adds value; we ensure boys have the tools and character to prosper.



EXCELLENCE

A John Lyon boy achieves excellence in his endeavours.

Inspirational, dynamic teaching ensures pupils are encouraged, mentored and nurtured to excel and achieve. We provide a springboard for later life with a broad curriculum that ensures each individual is challenged. John Lyon boys become the best they can be.



INNOVATION

A John Lyon boy is willing to be bold, experiment and be resourceful.

We welcome unconventional and original ideas. We are a listening School where ideas and concepts are readily communicated and implemented. We embrace technology to support the application of imagination and initiative.



RESOLVE

John Lyon boys have the capacity to embrace adversity, recover quickly, and learn from the experience.

John Lyon boys are determined, tenacious and steadfast. Our teaching, mentoring and pastoral care cultivate an environment where courage, mental fortitude and grit prevail.



HERITAGE

John Lyon boys have a strong moral code and pride in the charitable history of the School's founder. We celebrate heritage. We are proud of our charitable history: a strong moral code, our ethical approach to education and core values derived from our founder, John Lyon. We have a contemporary approach in an established and traditional setting. We maintain close relationships with our Alumni and wider John Lyon family. We are a local School with an international horizon.



COMMUNITY

John Lyon boys are compassionate and respectful, looking after both each other and our wider community.

We are happy, kind-hearted and tolerant, approaching life with a spirit of service. Community starts at School and extends to the Hill, our Alumni, our peers within John Lyon's Foundation, our families, neighbours and beyond. Our friendship is for life.



ENQUIRY

John Lyon boys have enquiring minds and a love of learning.

A John Lyon boy is encouraged to challenge the status quo and be curious. Boys are inspired to ask questions of themselves and the world around them. We foster their interests through our bespoke curriculum, outstanding extra-curricular provision and excellent facilities.



CREATIVITY

A John Lyon boy will explore, use his imagination and be inventive.

We embrace individuality and celebrate creativity of thought and deed. The Creative Arts are cherished and nurtured. We approach School life with energy and with purpose. John Lyon boys have flair and vision.

Welcome

The Sixth Form at John Lyon is an exciting, challenging and rewarding experience - an opportunity for the young men who study here to focus their education on subjects that will bring them the most academic enjoyment and success, and act as a springboard to university and beyond.

Each year the vast majority of our GCSE students move into the Sixth Form, where they are joined by new students from outside the School – from both independent and state education – to make the most of the crucial last two years of secondary education.

With between 160 and 180 students, the John Lyon Sixth Form is a close-knit community with high academic standards. It is set in the centre of the School site in the beautiful original Victorian School building, the Thomas Blackwell Sixth Form Centre. The Sixth Form Centre has facilities for the exclusive use of Sixth Formers: a common room, quiet study room, IT suite and a kitchen, as well as Sixth Form classrooms and offices for the Head of Sixth Form and the Head of Higher Education.

This booklet aims to guide boys and their parents through the selection process, looking at each subject that is offered here.

For boys already studying (I)GCSEs at John Lyon, there are many members of staff who can help in making

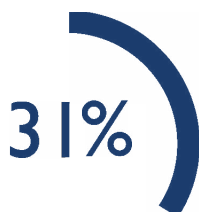
these decisions. Form Tutors and the Head of Year 11, Miss Jade Boyle, will know each pupil's strengths. Heads of Department can provide details on what potential courses entail and advise on suitability. For questions about particular university courses or career options, the Head of Higher Education, Mr Stephen Mephram, and Careers Advisor Mrs Marion Harper can suggest potential A-Level subjects. Head of Sixth Form Mr Jonathan Rowe is able to provide a detailed picture of life in the John Lyon Sixth Form.

At John Lyon, we are hugely proud of our Sixth Form community and the great diversity of talents that flourish within it. We believe there is no better place to prepare for life beyond school: all our students receive the focused and individual support required to become truly independent students and ultimately join the workforce equipped for what the future has to offer.

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A-LEVEL RESULTS 2018



EXAMS AWARDED
A* | A GRADE



PASS RATE

OXBRIDGE

Successful entry to Oxford and Cambridge

RUSSELL GROUP

44% of students going to Russell Group universities

UNIVERSITY OF LONDON

One-in-five students going to University of London - KCL, UCL, LSE, Queen Mary, City, St George's, Royal Holloway



SIXTH FORM CURRICULUM

Entry to the John Lyon Sixth Form begins by selecting four subjects to study during the Lower Sixth year. For some students, these will be their best subjects from (I) GCSE, others will include subjects unique to the Sixth Form. In the Summer Term of the Lower Sixth, students sit internal examinations to assess their progress. Following these exams, most students take forward their best three subjects to the Upper Sixth year, at the end of which they sit their A-Level examinations. Some students choose to continue with all four subjects.

At the end of the Lower Sixth, students also have the opportunity to commence an Extended Project Qualification (EPQ). This is increasingly recognised by leading universities as it enables students to demonstrate their readiness for the demands of degree-level study.

Students research a topic of their choosing and present their findings either as a 5,000-word dissertation, a film, a performance or an art work.

A-LEVEL SUBJECTS

We intend to offer the following subjects in 2019 - 2020:

Art
Biology
Business*
Chemistry
Classical Civilisation*
Classical Greek
Computer Science
Drama and Theatre Studies
Economics*
English Literature
French
Geography
History
Latin
Mathematics
Further Mathematics
Music
Music Technology*
Philosophy
Physics
Politics*
Psychology*
Spanish

The viability of any course may be reviewed in the event of low interest.

Universities seek well-rounded individuals who enjoy pursuits beyond their chosen field. In addition to their selected subjects, all Sixth Form students also participate in a Games afternoon and the Co-Curricular Programme. The latter includes the Union lecture series featuring talks from renowned external speakers and John Lyon staff.

Students can also demonstrate their leadership potential through participation in the many clubs and societies on offer, as well as their contributions to the House system.

More information on each subject can be found later in this booklet.

ENTRY REQUIREMENTS

Academic success at A-Level relies on a sound foundation; (I)GCSE grades need to reflect a student's ability to think at a high level.

In order to proceed automatically to the Sixth Form, it is necessary for a student to achieve a minimum of six (I)GCSEs at grade 6/B, and in most cases a grade 7/A or higher in the subjects chosen to study at A-Level.

A-Level Mathematics and Further Mathematics have higher requirements. Subjects that are new at A-Level will have requirements from (I)GCSEs that assess appropriate skills, e.g. Economics requires a grade 7 or higher in both English Language and Mathematics. As an 11-18 School we expect pupils to progress from Year 11 into the Sixth Form. Internal examination results throughout Years 10 and 11 are used to reflect on pupils' potential for the Sixth Form. Once confident of this, pupils receive an invitation to accept a place providing the entry requirements are met. The highest performing pupils are also invited to sit Sixth Form Scholarship examinations in the Spring Term of Year 11.

We recognise that some pupils develop later than others and treat all boys as individuals. In cases where there is less certainty of a pupil's A-Level potential, conditional invitations may be issued. These may require a student to achieve specified targets throughout the Lower Sixth year or that they only choose subjects from a restricted pool.

*Subjects unique to Sixth Form study.



SUBJECT COMBINATIONS

We encourage students to study a range of subjects offering academic breadth through the logical mixing of arts, sciences, humanities and languages. Students are encouraged to think carefully about what degree and career pathways might become available to them by the combination of subjects they study. We aim to meet the wishes of every student and will certainly cater for the most obvious combinations, e.g. Mathematics with three sciences; Economics with Politics; English Literature with Latin. Whilst we can usually cater for some unique combinations, due to timetabling constraints it is not possible to offer every combination of the 23 subjects available.

UNIVERSITIES

Universities have a wide array of entry requirements that vary by both institution and course. Most offers relate to an applicant's best three A-Level grades.

(I)GCSE performance will be a significant factor as to whether an offer is made. Separately, the highest ranking universities now also require applicants to sit entrance examinations in early November in the year prior to entry. Potential candidates are invited to attend John Lyon preparation classes targeted at their chosen subject.

To assist A-Level subject selection, the table shown on the following pages contains the major courses studied at UK universities alongside their required and/or preferred A-Level subjects. Whilst it is early to be deciding upon a degree course, it is important to understand that in not selecting a subject, a student may be closing the door on a particular career pathway, e.g. without Chemistry, it is not possible to study Medicine.

The table is intended as a general guide. Courses and entry requirements vary with time and by institution. University websites should be consulted for the most accurate information.

Further advice is also available from:

Mr Jonathan Rowe, Head of Sixth Form

Mr Stephen Mepham, Head of Higher Education

Mrs Marion Harper, Careers Advisor

Mrs Maria Trafford and Dr Florence Weinberg, Excellence Team Coordinators (Oxford and Cambridge applicants)

Ms Sameeyah Toraub, Biomedical Co-ordinator

KEY DATES

Sixth Form Open Evening

Thursday 4th October 2018

Sixth Form Subject Information Evening

Monday 21st January 2019

Careers Evening

Thursday 7th February 2019

Deadline for A-Level Choices*

Monday 11th February 2019

(I)GCSE Results and Confirmation of A-Level Subjects

Thursday 22nd August 2019

Sixth Form Induction Programme

September 2019

*After this date, changes to a student's subject choices may still be possible but only if the new subject combination fits within the timetable.



UNIVERSITY COURSE	SUBJECT(S) REQUIRED OR PREFERRED
Accountancy, Finance and Management	Mathematics preferred, sometimes required. Economics or Business helpful.
Agriculture	Two sciences: Chemistry often required, Biology often preferred.
Archaeology and Anthropology	Courses are typically sufficiently flexible to allow any subject background; however some programmes do require a science.
Architecture	Mathematics and Physics might be required. In addition, an arts subject may be preferred. An Art/Design portfolio is likely to be required.
Art and Design	A-Level Art (2D or 3D) required, with portfolio of work.
Biochemistry	Chemistry and Biology required, with Mathematics preferred.
Biological Sciences	Biology and Chemistry required.
Chemistry	Chemistry required, with two of Mathematics, Biology and Physics preferred.
Chemical Engineering	Chemistry and Mathematics required, and Physics preferred.
Computer Sciences	Mathematics and sometimes Physics required; Further Mathematics helpful.
Dentistry	Chemistry and/or Biology required.
Economics	Mathematics/Further Mathematics required at top universities; Economics preferred. For some universities, such as Durham and LSE, Further Mathematics only counts as part of four A-Levels.
Engineering	Mathematics and Physics required; Further Mathematics an advantage.
English	English Literature for an English Literature degree or any other English degree course, e.g. Creative Writing or Communication.
Geography	Geography required.
Geology	Two or three of Geography, Chemistry, Physics, Mathematics, Biology required.
History	History required; a modern language helpful for Modern History.
Law	Very high grades are more important than specific subjects. An essay-based subject is desirable.
Materials Science	Physics and Mathematics required; Chemistry helpful.
Mathematics	Mathematics required; Further Mathematics preferred; Physics helpful.



UNIVERSITY COURSE	SUBJECT(S) REQUIRED OR PREFERRED
Medicine	Chemistry is always required; Biology is usually required; an additional science or Mathematics is sometimes preferred. However, some admissions tutors regard an essay-based subject or a language as interesting – but such ‘broadening’ subjects are now acceptable as a fourth AS subject. High grades in all (I)GCSE subjects are required.
Modern Languages	First modern language in main area of study (e.g. French, or Spanish) required; a second modern language might be helpful and is occasionally required.
Music	Music required.
Natural Sciences	Three of Biology, Chemistry, Physics, Mathematics required: very high grades essential; Further Mathematics might be helpful for Physics-based options. High grades in all other (I)GCSE subjects.
Pharmacology	Chemistry, with two of Biology, Physics and Mathematics required.
Philosophy	No specific requirements; an arts-science mix useful.
Physics	Mathematics and Physics required.
Politics	No specific requirements; History or Politics helpful.
Psychology	Many courses require one or two sciences including Mathematics, but some arts-based courses have no specific requirements; knowledge of statistics can be helpful.
Social Studies	No specific requirements, however a knowledge of statistics helpful.
Theology	No specific requirements, however one or more of a modern language, History, and Philosophy might be helpful.
Veterinary Science	Chemistry and Biology typically required; Mathematics or Physics also preferred. Work experience essential. High grades in all other (I)GCSE subjects.



A-Level Subjects

ART

A-Level Art and Design (Fine Art) introduces students to a variety of experiences exploring a range of media, processes and techniques. Areas of study include painting, drawing and mixed media, collage and assemblage, sculpture and installation, printmaking, animation, photography and video. A printmaking, photographic and animation studio is housed in AD3, as well as two purpose built classrooms, a kiln room and photographic darkroom. Students are encouraged to use these facilities during free periods, lunchtimes and before school to develop their individual work. A qualification in Art and Design demonstrates a student's capacity to construct and develop a sustained line of reasoning from an initial starting point to a final realisation.

Are there any special requirements?

A strong grade at (I)GCSE Art and a real passion for the subject, demonstrating enthusiasm and commitment.

What could I do with Art?

Studying Art leads to a better understanding of the visual world, allows students to develop their own visual language and gives them the capacity to make informed, critical judgements. Art can lead to a career in architecture, engineering, animation, product design, graphic design, fashion, fine art, film and television, publishing and many more. We aim to help our students through the university entrance process, with workshops and portfolio presentation classes and are proud of our students' successes.

BIOLOGY

Biology is the study of life and living organisms. A-Level Biology is a challenging and stimulating course that appeals to the logical thinker and will help students understand the biological advances and discoveries being made around us. Students of Biology will gain a range of practical skills and techniques that will give

them a firm foundation in any Biology-related field they wish to pursue to degree level. There is assessed practical work but no assessed coursework involved.

Are there any special requirements?

Grade 7 at (I)GCSE Biology.

What could I do with Biology?

Biology is required for studies in Natural Sciences, Medicine, Dentistry, Pharmacology, Veterinary Science, Botany, Zoology, Physiotherapy, Psychology, Genetics and other similar courses. The A-Level course is held in high regard by universities and employers as it equips its students with a logical mind and many transferable skills.

BUSINESS

A-Level Business is a subject that aims to equip students with a theoretical and practical understanding of the world of business. Drawing from real-world examples, the course encourages students to think like an entrepreneur and explores the processes needed to start, grow and maintain a successful business. The course focuses on four key departmental areas – marketing, operations, finance and human resources – that we study in depth.

Are there any special requirements?

Grade 6 at both (I)GCSE Mathematics and English Language.

What could I do with Business?

Business gives students a wide variety of options after their A-Level examinations. It will equip students with a wealth of skills and knowledge that could lead to them becoming the next generation of entrepreneurs. It also opens many options at university; students often go on to study Business Management, Finance, Marketing, Accountancy and numerous other Business-related courses at leading universities.



CHEMISTRY

Chemistry offers students the opportunity to increase their understanding of the physical world around them and gain insight into the importance of this vital science in our everyday lives. Alongside the study of inorganic, organic and physical chemistry, the course offers a sound grounding in the relevant practical and analytical skills.

Are there any special requirements?

Grade 7 at (I)GCSE Chemistry.

What could I do with Chemistry?

Chemistry is an essential subject for degree courses in Chemistry, Chemical Engineering and Pharmacy. It is also a requirement for Medicine and Dentistry and for other courses in the life sciences. A-Level Chemistry is a good supporting subject for other areas in the physical sciences and engineering and can contribute to the understanding of both A-Level Physics and Biology. With its blend of theoretical, numerical and practical skills, its encouragement of logical thinking, academic rigour and the precise use of terminology, A-Level Chemistry is excellent training for many fields. Former students have gone on to a variety of successful careers in industry and commerce, law, accountancy and the academic world.

CLASSICAL CIVILISATION

The ultimate multidisciplinary subject with a unique blend of archaeology, art, art history, architecture, history, politics and literature. Moreover, in ancient Greece and Rome we explore the very foundations of Western civilisation. If you enjoy an epic story of 'gods and monsters', re-told over the ages; enjoy looking around museums and galleries; if you are fascinated by archaeology and ancient history; if you are drawn by history and politics, or perhaps simply want to explore the classics as 'something different', then this highly respected course is perfect for you. Learning will be facilitated by visits to the British Museum and galleries in Oxford and Cambridge, while optional study trips are planned to Greece and/or Italy in order to broaden students' knowledge.

Are there any special requirements?

While Latin and Greek are not required at (I)GCSE, a grade 7 at (I)GCSE English and/or a humanities subject is strongly advised.

What could I do with Classical Civilisation?

It is perfect for those students who will be pursuing a multidisciplinary approach in future studies, drawing on a wide range of themes and approaches. The different topic strands of the subject combine to provide the benefits of a much-praised 'classical education'. Highly transferable critical and evaluative skills will be sharpened through the course, as will the ability to construct an argument and defend opinions with clear communication. Former students have gone on to study such diverse subjects as Art, Archaeology and Anthropology, Drama, History, Journalism, Law, Philosophy, Politics and, of course, Classics.

CLASSICAL GREEK

The study of Classical Greek at A-Level affords successful classicists the opportunity to go further and deeper with the language, its literature and cultural world. Students will explore timeless masterpieces in the written word and discover greater nuance in grammar and expression. Even more than Latin, Greek – not widely offered even in independent schools – sets candidates apart from the regular crowd. With regard to literature in particular, emphasis is placed on the appreciation of Greek texts within their literary, social and historical context. Candidates will develop a thorough understanding of literary technique and a variety of written genres, while enhancing their ability to translate and comprehend Greek of a truly sophisticated and challenging nature.

Are there any special requirements?

Grade 7 at (I)GCSE Classical Greek.

What could I do with Classical Greek?

Classicists are renowned for their intellectual curiosity and rigour; Greek is therefore prized as an A-Level qualification by a wide range of employers in such diverse areas as law, medicine, stockbroking, accountancy and journalism. More specifically, a Greek A-Level affords excellent preparation toward the study of Classics at university level, with obvious applications for research, teaching, archaeology and museum work. Repeated surveys indicate that classicists are looked upon with considerable favour by employers; it is recognised that the study of Classics implies the capacity for hard and careful work, a heightened sensitivity to the use of language and the ability both to comprehend and manipulate complex ideas.



COMPUTER SCIENCE

Computer Science is a practical subject where students can apply the academic principles learned in the classroom to real-world systems. It encourages computational thinking, helping students to develop the skills to solve problems and design systems. Alongside a rigorous study of computing systems and algorithms and programming, students will undertake a programming project to demonstrate the ability to analyse a problem before designing, developing and evaluating a solution.

Are there any special requirements?

Grade 7 at (I)GCSE Computer Science.

If Computer Science has not previously been studied, a grade 7 in Mathematics (I)GCSE is required. The Head of Computer Science will also advise regarding a student's suitability before confirmation of acceptance onto the course.

What could I do with Computer Science?

A-Level Computer Science will provide excellent preparation for students wanting to go on to study Computer Science at a higher level and will also provide a good grounding for other subject areas that require computational thinking and analytical skills, e.g. Engineering, sciences and digital arts/games.

DRAMA AND THEATRE STUDIES

The Drama and Theatre Studies course is designed for students to explore plays from the point of view of a director, designer, performer and critic. It is a very practical course that will assess a student's ability to interpret, realise and evaluate creative pieces of theatre.

Are there any special requirements?

Although not compulsory, it is useful to have taken (I)GCSE Drama as the course develops and enhances many of the skills acquired at that level. Participation in extra-curricular Drama is also beneficial.

What could I do with Drama and Theatre Studies?

Studying this subject will equip students with a set of rigorous analytical and communication skills that transfer to other areas of study. Students will also have

acquired time management and leadership skills, giving the ability to work under pressure. Past students have gone on to study a range of different subjects.

ECONOMICS

Economics is the study of how society copes with the 'economic problem' – the existence of unlimited wants and scarce resources. How do consumers, firms and governments make decisions regarding resource allocation? As a society, how do we decide who gets what? Should we prioritise tackling inflation, unemployment or growth? Should our railways be re-nationalised, might train operating companies provide a better service in a more competitive market?

Microeconomics is the study of individual markets. It explores how supply and demand interact to determine the price of goods and services, and the quantity produced and consumed. Macroeconomics focuses on broader economic issues that apply at a national and international level. Students will learn about concepts such as economic growth, recession, unemployment, inflation, exchange rates and the distribution of income.

Are there any special requirements?

Grade 7 at both (I)GCSE Mathematics and English Language. Please note that many degree-level Economics courses have A-Level Mathematics as an entry requirement. Potential candidates for undergraduate Economics at Oxbridge and LSE should consider A-Level Further Mathematics.

What could I do with Economics?

A-Level Economics is a highly respected qualification that will strongly underpin applications for university and employment in a wide range of professions. It is often associated with the financial, administrative and business sectors of the economy. As Economics requires students to write fluently, think critically and apply mathematical techniques, it is often seen as a bridge between traditional and social sciences. Success in A-Level Economics suggests that a student is multi-dimensional, analytical and capable of developing a coherent argument.



ENGLISH LITERATURE

This course involves the study of literary texts, novels, poetry and plays, from Chaucer to the modern day. Assessment is by examination (80%) and coursework (20%). Lessons are based upon discussion and the personal response of students is the focus of the course. There is also scope, through coursework in particular, for students to explore their own literary interests. Students will be expected to read widely around the course, both in the area of critical analysis and also of other, similar, texts.

Are there any special requirements?

Grade 7 at (I)GCSE English Literature and grade 6 at (I)GCSE English Language.

What could I do with English Literature?

English is respected by universities and employers because it is rigorous, helps to extend a student's sympathetic imagination and demands a sophisticated use of literacy. English can be studied alone at university or in combination with another subject, e.g. History or Politics. In Sixth Form, English complements any other subject. It makes a popular and useful course esteemed by law conversion courses for aspiring barristers and solicitors and provides the gateway for many creative degree subjects and respected professions. A student who succeeds in English demonstrates that their communication and analytical skills are of the highest order. These skills are essential for success in any future career.

FRENCH

This course allows you to develop the language skills acquired at (I)GCSE through the study of a more advanced range of topics, including current trends and issues in French speaking society, alongside developing an understanding of French artistic culture and political life. Assessment tasks will be varied and cover listening, speaking, reading and writing skills.

Are there any special requirements?

Grade 7 at (I)GCSE French.

What could I do with French?

An A-Level in a modern language is a highly respected academic qualification. It complements many areas of study, and Economics or business-related degrees in

particular. Students will acquire a range of transferable and interpersonal qualities sought by many employers. Linguists are trained to think structurally, while essay writing gives them good practice in presenting focused arguments. Many language courses involve working cooperatively in groups and making formal presentations to an audience, the sort of teamwork and presentational skills that employers are seeking.

GEOGRAPHY

The School follows the AQA linear specification at A-Level, which is comprised of physical and human geography components, spanning the study of topics such as water/carbon cycles and global systems and governance. In addition to these components, students must complete an individual investigation project. In preparation for this 'non-exam assessment', students are required to complete four days of field work. This field trip takes place in the Lower Sixth and, depending on numbers, can be a residential trip or a series of day trips.

Are there any special requirements?

Grade 7 at (I)GCSE Geography.

What could I do with Geography?

Geography is a rigorous and well-respected subject at university level, flexible enough to be tailored to specific interests, yet broad enough to foster a wide range of skills needed for being successful as an undergraduate. Employers value the comprehensive computer, research and analytical skills that Geography degree students bring to work as employees. There are many options and potential career paths open to Geography graduates, from the obvious, such as teaching, to the less obvious, such as law or engineering.

HISTORY

History at A-Level represents the opportunity to study the past but also understand the present world. As well as learning about significant historical events and their social, political and economic context, History provides the opportunity to develop a range of valuable skills. The course is linear, comprising topics ranging from Tudor England and an in-depth study of historical interpretations, to Luther's challenge to the Catholic Church, to race relations in US society. Through an independently researched assignment, students will



develop skills in the analysis and evaluation of interpretations of history in a chosen question. Examinations are taken at the end of Upper Sixth, with coursework being completed by February half term in Upper Sixth.

Are there any special requirements?

History at (I)GCSE is preferred, although not mandatory.

What could I do with History?

Historians will finish the A-Level course equipped with transferable skills that are useful for further study and employment. Comprehending source skills of inference, cross-referencing and utility, as well as the ability to confidently construct a well-argued and cogent essay, are disciplines that lend themselves to a range of subjects and careers. Past students have gone on to study History, Politics, International Relations, PPE, Economics and Law.

LATIN

The study of Latin at A-Level affords successful classicists the opportunity to go further and deeper with the language, its literature and cultural world. Students will explore timeless masterpieces in the written word and discover greater nuance in grammar and expression. With regard to literature in particular, emphasis will be placed on the appreciation of Latin texts within their literary, social and historical context. Candidates will develop a thorough understanding of literary technique and a variety of written genres, while enhancing their ability to translate and comprehend Latin of a truly sophisticated and challenging nature.

Are there any special requirements?

Grade 7 at (I)GCSE Latin.

What could I do with Latin?

Classicists are renowned for their intellectual curiosity and rigour; Latin is therefore prized as an A-Level qualification by a wide range of employers in such diverse areas as law, medicine, stockbroking, accountancy and journalism. More specifically, Latin A-Level affords excellent preparation toward the study of Classics at university level, with obvious applications for research, teaching, archaeology and museum work. Repeated surveys indicate that Latinists are looked upon with considerable favour by employers; it is

recognised that the study of Classics implies the capacity for hard and careful work, a heightened sensitivity to the use of language and the ability both to comprehend and manipulate complex ideas.

MATHEMATICS

Throughout the Mathematics course, students are expected to extend their powers of reasoning and insight in abstract frameworks; application to real-world problems may be relevant and exploited in order to make sense of the new mathematical structures and methods that are met.

Are there any special requirements?

Grade 7 at (I)GCSE Mathematics.

What could I do with Mathematics?

Achievement in Mathematics is seen by many employers as a mark of diligence, insight and intellect. Research by the Centre for Economic Performance at The London School of Economics found that “individuals with a Mathematics A-Level earn 7-10% more than otherwise similarly educated workers without this qualification.” Students who have achieved at A-Level can expect to find their skills valued and useful throughout their working life.

FURTHER MATHEMATICS

Further Mathematics students make the commitment to study a significant range of mathematical techniques in great depth. They are the elite of young mathematicians and must be extremely well-motivated and capable of studying Mathematics both collaboratively and independently in order to keep up with the fast pace of the course.

Are there any special requirements?

Further Mathematics students would have reached set 1 in Mathematics by Year 11 and have been selected to complete the Level 2 Certificate in Further Mathematics. Separately, students must have achieved 90% or higher at (I)GCSE Mathematics.

What could I do with Further Mathematics?

Students typically progress to study Mathematics-intensive subjects in the best university departments. Indeed, some prestigious university



courses will much prefer students with Further Mathematics qualifications.

MUSIC

This course offers the opportunity to develop musical skills and understanding. Through performing, composing and analysing music, knowledge and appreciation of the subject will deepen. We will study instrumental music (Haydn, Mozart and Beethoven); popular song (blues, jazz, swing and big band); instrumental jazz from 1910 to the present day; religious music of the Baroque period; programme music (1820-1910); and innovations in music from 1900 to the present day.

Are there any special requirements?

It is useful to have taken (I)GCSE Music in order to progress satisfactorily to A-Level Music. Students considering taking Music should also be instrumentalists or singers of a reasonable standard (grade 6 minimum).

What could I do with Music?

Students who choose this course are usually serious about their music-making, as either performers or composers. The course complements a variety of other academic subjects and gives further insight into the history and development of a number of genres, alongside promoting good listening, analytical and creative skills to an advanced level. University and conservatoire music courses are available for those who wish to study the subject as a gateway into professional music as a performer, composer, teacher, arranger or musicologist.

MUSIC TECHNOLOGY

Music Technology offers the chance to explore alternative job roles within the music industry, from sound or recording engineer to music arranger or composer. Critical listening skills are developed alongside recording, sequencing and composition tasks. Music Technology is a two-year linear A-Level consisting of two externally-examined papers and two non-examined assessment components, sat in the second year.

Are there any special requirements?

It is useful to have taken (I)GCSE Music to progress to A-Level Music Technology.

What could I do with Music Technology?

Music technology, like other forms of technology, advances rapidly. An A-Level in Music Technology provides opportunities to embrace recent developments in the field, equipping students with a skill set that will enable them to progress to higher education, or directly into the workplace. There are many career possibilities for those proficient in Music Technology, from sound engineering and record production, to film and computer-game composition.

PHILOSOPHY

Do you like big questions that often don't have answers? Do you like discussion? Do you like having arguments? Do you like ideas? Would you find it interesting to explore ideas produced by some of the greatest minds that have ever existed? Not only will studying Philosophy enlarge a student's understanding of their own existence, it will also demonstrate to universities and employers the quality of their mind. It will showcase an ability to construct arguments, think logically and creatively and to master and communicate ideas.

Are there any special requirements?

Students do not need to have studied (I)GCSE Religious Studies and Philosophy. However, it is expected boys will have at least a grade 7 in either (I)GCSE History or English Language.

What could I do with Philosophy?

A-Level Philosophy is a highly respected academic qualification. Past students have gone on to read Philosophy, Theology, Religious Studies, PPE, Law, Medicine, Dentistry, Economics, English and many other subjects at Oxbridge and Russell Group universities. According to the Association of Graduate Careers Advisory Services, Philosophy graduates go into a wide range of careers including: law, medicine, psychology, education, politics, business, financial services, management, the civil service, journalism, publishing, broadcasting, film and media.

PHYSICS

Physics is an exciting and intellectually stimulating natural science. It is the most basic science and underpins other sciences and engineering. In our



technological age, physicists are needed to understand and appreciate the complexities and subtleties of the physical world.

Are there any special requirements?

Grade 7 at (I)GCSE Physics. It is strongly advised that Physics is studied alongside A-Level Mathematics.

What could I do with Physics?

Physics comes into every aspect of our lives. Physics is essential for engineering of any type; architecture, astronomy and meteorology. Recent past students have gone on to study Natural Sciences, Mathematics, Medicine, Economics, Architecture and Psychology. Potential career paths include academia, accountancy, industry, finance and business.

POLITICS

Politics will appeal to students who have an active interest in politics and current affairs, in the way in which Britain is governed, in how our democracy works and, not least, as global citizens, in how the world system operates. Alongside the study of UK government, politics and core political ideas, students will undertake a comparative study of US politics.

Are there any special requirements?

No specific requirements, although a record of strength in humanities at (I)GCSE is recommended.

What could I do with Politics?

Politics represents an attractive academic choice at A-Level. The course aims to impart a wide range of transferable skills that will help students at university and beyond. Inference, analysis and argument are just some of these, as well as the ability to communicate effectively. Past students have gone on to study Politics and International Relations, PPE (Politics, Philosophy and Economics), History, Economics, Journalism and Law at some of Britain's best universities. Those with potential future careers in journalism, diplomacy and the civil service would find much of interest in the study of Politics. Those seeking employment in the Foreign Office, the security services and the armed forces would similarly find much benefit.

PSYCHOLOGY

Psychology is an interesting subject that provides us with a broad understanding of human and animal behaviour, looking at the external and internal processes associated with it. There are also many areas of interest that appeal to different people for various reasons. For example, while some are drawn to developmental psychology, others find social psychology fascinating because they are keen to know more about human interaction. Topics covered range from psychopathology to models of memory and social influence.

Are there any special requirements?

Grade 6 at both (I)GCSE English Language and Mathematics.

What could I do with Psychology?

Psychology A-Level is a useful subject that can be combined with other A-Level subjects for undergraduate studies in Law, Economics, Biology, Sports Science and Psychology, to name a few. Potential career paths include academia, recruitment and consultancy, mental health and counselling, marketing and education.

SPANISH

This course allows students to develop the language skills acquired at (I)GCSE through the study of a more advanced range of topics such as aspects of Hispanic society, artistic culture in the Hispanic world, multiculturalism in Hispanic society and aspects of political life in Hispanic society. Students study a film as well as a book that are related to a Spanish-speaking country, furthering their appreciation of aspects of Hispanic culture. Reading, translation, listening and speaking skills will also be honed and assessed.

Are there any special requirements?

Grade 7 at (I)GCSE Spanish.

What could I do with Spanish?

An A-Level in a modern language is a highly respected academic qualification. It complements many areas of study, and Economics or business-related degrees in particular. Students will acquire a range of transferable skills that will equip them for many different disciplines.



SIXTH FORM CAREERS

The aim of the Careers Department is to provide information, advice and guidance to Sixth Form students about A-Level choices and future career paths. This is offered in an impartial and objective way and can be in an individual interview or small group.

Careers Advisor Mrs Marion Harper works closely with Head of Careers Miss Shira Patel. Together they create a programme of events throughout the year, including STEMNET (Science, Technology, Engineering and Maths), visits and talks. They organise a Citywalk, an assessment day with an external company, invite speakers from different career areas, and offer guidance on apprenticeships, gap years and work.

EXTENDED PROJECT QUALIFICATION (EPQ)

High achieving students can consider applying to follow the Extended Project Qualification at the end of their Lower Sixth year as a way of enhancing their university application. Students can also opt to complete alternative research qualifications, such as national essay prizes, as directed by a subject department, or the School's Independent Research Prize.

The Independent Research Prize is similar to the EPQ in that it encourages students to research a topic of their interest and to record this in a formal, academic manner.

However, unlike the EPQ, which is conducted over the course of the Upper Sixth year and is an externally assessed qualification, the Independent Research Prize takes place over the summer in between Lower and Upper Sixth and is submitted in the first week of the Upper Sixth. As with the EPQ, students are allocated a research advisor, who will be an academic member of staff, to support them through the process. Prizes for the best projects are awarded in the November of the Upper Sixth.

Universities value the EPQ and the Independent Research Prize for their ability to encourage independent learning, thinking and research.

SIXTH FORM EXCELLENCE PROGRAMME

For students who perform particularly well in their (I)GCSEs, the John Lyon Sixth Form offers preparation for Oxbridge applications and entry to other competitive universities, as well as for those interested in applying for courses in Medicine, Veterinary Science, Dentistry and Architecture. Aspirational universities and courses may require particular interview skills and entrance tests. Therefore, we have designed a system of seminars, mentors and a written guide, which supports students through the rigorous process of making a credible application.

All boys in the Sixth Form at John Lyon have the opportunity to take part in our enrichment programme, aimed at students who are keen to deepen their knowledge and passion for their subjects. Activities are there not only to support the curriculum but also to enhance a deeper understanding. Each term a newsletter is published listing a variety of seminars, workshops, competitions and special event lectures from high profile speakers, which are open to all students regardless of their ability.

Boys also have the opportunity to deliver their own lectures at the John Lyon Excellence Academic Seminars. This seminar series takes place half termly and allows Sixth Form students to develop vital skills in how to communicate their ideas to a mixed audience of pupils, from Year 7 to Upper Sixth as well as members of academic staff. Students learn how to think on the spot and respond to questions from the audience that can challenge their own view, allowing them to show off their flair and knowledge of the subject.

New to the Excellence Programme are bi-weekly lectures giving boys the chance to attend talks on a broad spectrum of subjects and ideas they may not have time to explore in their usual lesson time. Subjects may be as diverse as *Did Shakespeare really write all those plays?* or *How do photo realist artists create their work?*

At the heart of the Excellence Programme is the drive to develop a love of reading. Sixth Form students can use our 1876 Reading Room, opened in 2017 by Professor Robert Winston. This is located in the Red House and created especially for students to browse



books on the shelves, catch up on their own reading and relax in a completely quiet space.

Whatever passion or interest a student has, we hope to be able to deepen his knowledge and give him the opportunity to share it with others, enabling him not only to become a credible applicant to his chosen universities but also to develop a lifelong love of learning.

SPORT IN THE SIXTH FORM

Excellence in sport is pursued wholeheartedly but the main aim is to cater for every boy at his own level of ability, while encouraging enthusiasm towards all sports and promoting a healthy lifestyle. Our key objective is to instil a life-long love for sport and the values it embodies. Every boy is given the opportunity to play competitively at School should he wish to. With a full fixture list in each of our major sports and other

individual and team opportunities within the non-traditional sports each term, as well as a proactive inter-House competition throughout the year, boys are able to challenge themselves, develop skills and enjoy themselves. With over 15 sporting disciplines on offer across the year, most students will find themselves involved in one form of physical activity for a minimum of two hours a week, and through expert coaching from dedicated staff, boys flourish as they develop team spirit, camaraderie and self-belief.

Our fantastic sports facilities include high quality grass pitches and a floodlit AstroTurf at our Sudbury Playing Fields, and an indoor swimming pool, large fully equipped sports hall, fitness suite, free weights room and onsite all-weather practice area at the main school, which all enhance the high calibre of the sports programme on offer at John Lyon.

PROVISIONAL SENIOR SPORTS OPTIONS FOR 2019 / 2020

Autumn Term	Spring Term	Summer Term
Football	Hockey	Cricket
Fitness / Health Lifestyle Programme	Fitness / Health Lifestyle Programme	Fitness / Health Lifestyle Programme
Badminton	Badminton	Athletics
Basketball	Basketball	Badminton
Cross Country	Cross Country	Basketball
Golf	Football	Golf
On Site Activities	Golf	On Site Activities
Rock Climbing	On Site Activities	Rock Climbing
Sailing	Rock Climbing	Sailing
Squash	Squash	Squash
Swimming / Water Polo	Swimming / Water Polo	Swimming / Water Polo
Tennis	Tennis	Tennis



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