



HARROW
HIGH SCHOOL
SIXTH FORM





WELCOME TO THE PROSPECTUS FOR

HARROW HIGH SCHOOL SIXTH FORM

Dear Parents, Carers and Learners,

It is our pleasure to welcome you to Harrow High Sixth Form. At the core of our Sixth Form is excellent teaching and learning, which allows our learners to thrive, and achieve excellent examination results. Based on our performance over the last 5 years we are in the top 10 % of Sixth Forms nationally, and we are incredibly proud of this.

We are a relatively small Sixth Form, which allows class sizes to be small and for students to be known very well by their teachers and tutors, which makes for a supportive and warm atmosphere. All students are taught in specialist modern Sixth Form classrooms in a purpose-built block, by a team of highly-skilled, and enthusiastic subject specialists. Specialist Sixth Form Tutors and a Sixth Form Learning Mentor develop students' academic and wider skills so that they can make successful applications to the most selective undergraduate courses at top universities such as Cambridge, UCL, Imperial, Warwick, and LSE where our alumni now study.

We also place a great emphasis on the personal development of our learners to ensure they have the full range of skills and cultural capital they will need to accompany their academic achievements on their journey through life.

This is hard-wired into the DNA of our school through our school beliefs:

We believe in Excellence for All

- Excellent Learning & Progress
- Excellent Aspirations
- Excellent Behaviour, Safety & Care for each other
- Excellent Communication

We hope that this prospectus will give you a flavour of what Harrow High Sixth Form is about and the importance we place upon our beliefs. We have the highest expectations of all our learners and place great importance on the relationship between learners, parents and school so that every child can flourish, be successful and be happy.

If you have any questions, please do not hesitate to contact us, we will be delighted to speak to you.

Yours Sincerely,

Kevin Patel

Deputy Headteacher & Head of Sixth Form



EXCELLENT ASPIRATIONS

At Harrow High Sixth Form, we are wildly ambitious for all of our learners and place a strong emphasis on developing their aspirations. We are passionate about providing our learners with access to a wide range of enriching, stimulating, and insightful experiences to help develop their character, celebrate their culture, and strive for a brighter future.

We are proud to have a well-established Personal Development & UCAS Programme developed which allows our learners to explore their interests, develop their expertise, and experience success. We take great pride in being able to offer so many opportunities for our students to find and develop their talents, some of which are listed below.

- University Visits in Year 12 to UCL or Queen Mary, and Brunel or City universities
- Careers Fairs
- Enterprise Day
- Work Experience
- 1:2:1 Careers Advisor Interview
- UCAS Week
- Mock Interviews
- Residential Trips to Amsterdam and Paris
- Co-curricular programmes including Medical Society, Football, Psychoanalytic Club, The Aspirations Clinic, Health Care Research Project, and Student Leadership
- Subject Trips to Bethlem Royal Hospital, London Zoo, Norfolk Coastline, Oxygen Free Jumping, and Wellcome Collection
- Aspirations Trips to Brighton Beach, Hyde Park Winter Wonderland, and Crazy Golf



EXCELLENT LEARNING & PROGRESS

Our ambition for our learners is to equip them with the necessary knowledge and skills that will support them in their future lives, be that in progressing to University, an Apprenticeship, or in their chosen career. We believe the acquisition of knowledge and skills are vital not just to pass exams but to cultivate a passion for lifelong learning.

The building and retrieval of knowledge is at the forefront of what we do at Harrow High. Our learners are issued with knowledge organisers which express the key themes and ideas that are explored within our subjects. Cognitive science has shown that re-visiting key knowledge regularly enhances the capacity of long-term memory. Learners use knowledge organisers in all lessons to help them develop their study skills.

Aligned to this, we also use a powerful and pioneering interleaving programme in the Sixth Form. The interleaving programme empowers students to recall and strengthen their understanding of key areas of the specification throughout the course. It is essentially a structured revision programme, which allows students to avoid stress at the end of the course and free up class time to focus on higher level application of knowledge and skills.

Excellent learning is not just for our learners, but indeed for our staff too. We want to ensure that our teachers develop their skills based upon the latest educational research so that our learners in turn have a rich and rewarding experience through their learning journeys at Harrow High.



EXCELLENT COMMUNICATION

Excellent communication means clarity, respect and kindness. Through this we strive to ensure that all members of our school community understand each other, are treated equally and work together with common purpose. The use of clear and positive language and modelling excellent behaviour is always encouraged. All staff are committed to the principle of respectful challenge helping to maintain a calm, focused, stress-free school environment.

Excellent communication is especially important when working with parents and families. We understand that education is at its most effective when schools and parents work together. To this end, we promise to keep in touch regularly to ensure you are happy with the experience of your son or daughter. We also ensure you receive regular updates on their learning and progress through regular parents' evenings and termly reports.

We will also keep you up to date with the latest events and news through our website, twitter feed and newsletters. We encourage parents to make contact with the school whenever they need to and promise to respond to all non-urgent questions within 48 hours.

EXCELLENT BEHAVIOUR, SAFETY & CARE

Our school community actively promotes positive behaviour to ensure that all members of the school are safe and successful. We foster kind, respectful and professional relationships where everyone collaborates in the making of wise and civil decisions. Our guiding principle is kindness and we expect all members of our community to demonstrate this, regardless of who we are or what our role is in the school.

As adults, we model calm and consistent behaviour, ensuring our school provides a safe and enjoyable atmosphere in which to learn. Children must also learn to be accountable for their actions, learning from their mistakes to develop as responsible young people. Our behaviour policy supports this and we have robust systems in place to look after and care for those needing support and to hold to account those who do not model excellent behaviour.

With input from learners, we designed our 'See It, Report It, Stop It' anti-bullying policy as a tool for reporting acts of unkindness. This allows staff to deal with issues promptly and prevent incidents from escalating further. Our Safeguarding Team ensures any issues are dealt with and that support is put in place for those who are vulnerable. If we cannot provide support within our school systems we find support through counsellors and other charities and support services.

Our Tutor Programme and Personal Development lessons guide learners to make well-informed decisions to improve their own lives and those of others. We strive to develop well-rounded and informed young people who are equipped to be excellent citizens of any country they choose to live in.

RESULTS & DESTINATIONS

Our alumni who graduate from the Sixth Form achieve fantastic results and go on to study at their university of choice. Over the last 5 years, we have been ranked in the top 10% of schools in the country for our A-Level results. In 2019, the last year league tables were published, we were placed 19th in the whole of the UK for Level 3 BTEC results and in the top 6% of schools for A-Level results. These phenomenal results have allowed our learners to progress to some of the best universities in the country.

Every year approximately 30% of our Year 13 Leavers cohort progress to Russell Group Universities, compared to the national average of 12%. The Russell Group universities are widely considered to be the top 24 universities in the UK and include universities such as Cambridge, UCL, Imperial, LSE, and Kings.

| A-Level | 2023 | 2022 |
|---------|-------|-------|
| A* - B | 57% | 79% |
| A* - C | 92% | 92% |
| A* - E | 100 % | 100 % |

| BTEC | 2023 | 2022 |
|---------------|-------|-------|
| Dist* - Dist | 79% | 61% |
| Dist* - Merit | 97% | 100% |
| Dist* - Pass | 100 % | 100 % |



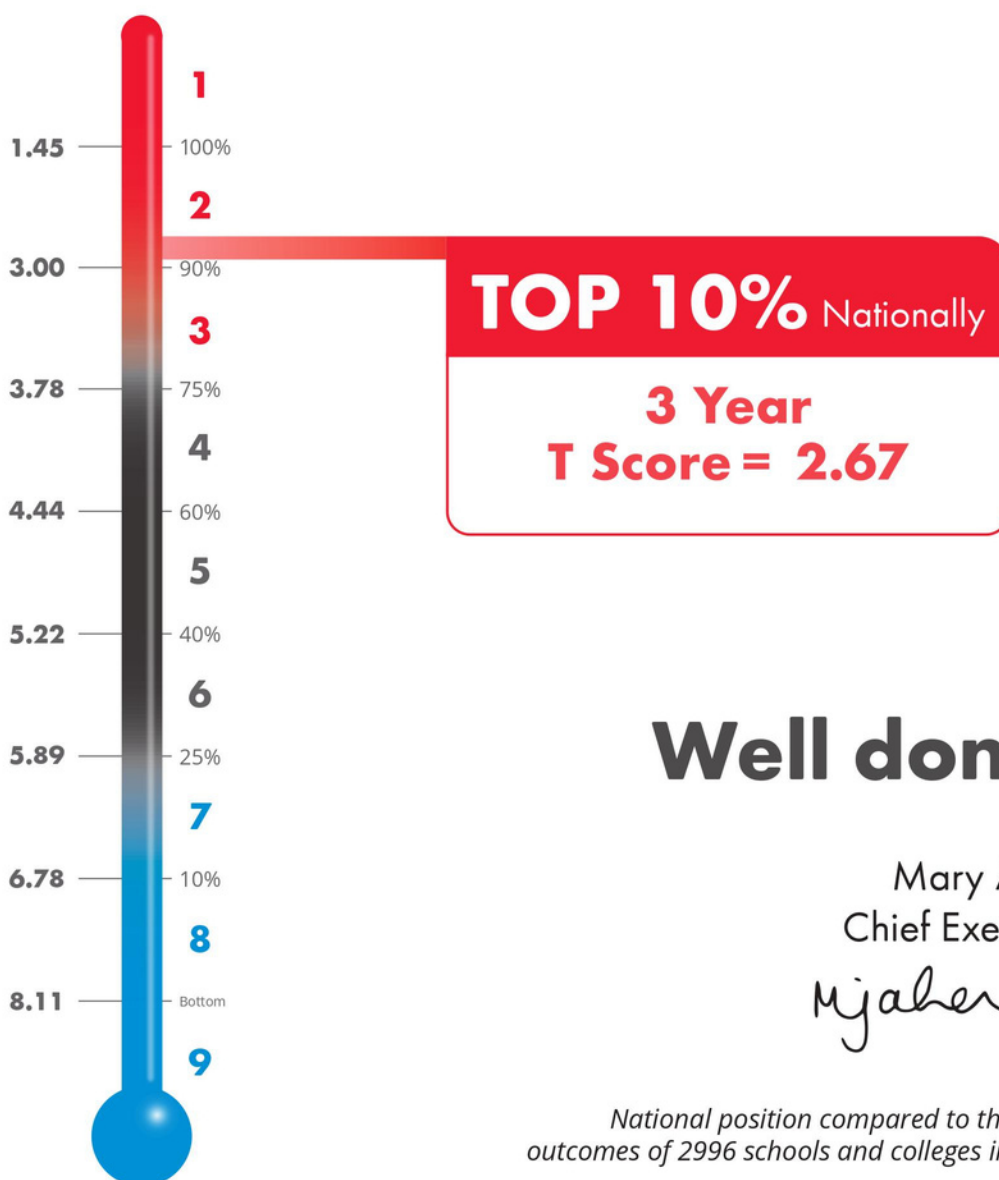
I never would have thought that I'd be coming out of Year 13 with A*AA. I want to take the opportunity to thank all my teachers for helping me persevere and realise that I can do whatever I set my mind to.

AISHA



2019 Alps Certificate of Outstanding Progress

Harrow High School



Alps Helping students aim higher

2022 PRESS RELEASE

Harrow High School, a fully comprehensive state school in North West London, is delighted to announce that Year 13 learners have today achieved our schools best ever A-Level results, with a record breaking 37% grades awarded at A* this year. Learners in Year 13 achieved 62% of A level grades at A*-A, 79% at A*-B, and 92% at A*-C, with a 100% pass rate. These phenomenal results will allow them to progress to a range of universities of their choice such as Cambridge, LSE, Kings, Warwick, and Queen Mary. BTEC Level 3 outcomes are similarly strong with 81% of grades awarded Distinction*-Distinction, with a 100% pass rate.

Paul Gamble (Headteacher) commented "We are ecstatic for our learners and are so proud of their fantastic achievements. This summer's exams were the first external assessments most of our learners have ever taken, and they took on the challenge with real determination. These results reflect just how hard learners and staff have worked over the last 2 years, and despite all the challenges of the pandemic, they have thrived. These are comfortably our best ever results, which is testament to the standards of teaching and learning in our Sixth Form and I would like to publicly thank all the staff at Harrow High who have worked tirelessly for them. The Head of Sixth Form commented "This group of young people have shown real determination and grit throughout their studies and they are now reaping the rewards with these amazing results. 100% of our Sixth Form learners have made successful applications to universities across the country and these results will ensure they are all able to take up these places. I am so proud of every single one of them, and wish them all the success as they move one step closer towards achieving their goals. I would like to take this opportunity to thank our learners' parents and carers for supporting the school over the years, it has been a wonderful and successful partnership."

We are proud of all of our students, but a few have really shone this year, achieving A* or Distinction* grades across all of their subjects:

Amaan Hamza who achieved A*A*A* in Computer Science, Maths, and Physics, and will be reading Computer Science at Cambridge

Pranvera Merkaj who achieved A*A*A* in Chemistry, Maths, and Physics, and will be reading Chemical Engineering at Bath

Harshraj Patel who achieved A*A*A* Computer Science, Economics, and Maths, and will be reading Computer Science at King's College London

Ilanthiraiyan Sivaganmoorthy who achieved A*A*A* Computer Science, Maths, and Physics, and will be reading Aeronautical Engineering at Queen Mary

Jake Edwards who achieved A*A*A* in Economics, English, and Psychology, and will be reading English Language and Creative Writing at Lancaster

Nasteha Muhudin who achieved Triple Distinction* in BTEC Applied Science, and will be reading Biomedical Science at East London

100% of our Sixth Form learners have made successful applications to universities across the country.


MR K PATEL
DEPUTY HEADTEACHER & HEAD OF SIXTH FORM



2022 DESTINATIONS

| | | |
|---------------|---------------------------------------|---------------------------------|
| Abdul | Neuroscience | Queen Mary University of London |
| Ahmed | Law | City, University of London |
| Aleeza | Management | University of Warwick |
| Alfie | Mechanical Engineering | University of East London |
| Amaan | Computer Science | University of Cambridge |
| Andreea | Law | Royal Holloway |
| Anum | Neuroscience | Kings College London |
| Arash | Business and Management | Brunel University London |
| Ayisha | Law | City, University of London |
| Cheyenne | Business with Law | Queen Mary University of London |
| Connor | Computer Science | University of Warwick |
| Darie | Economics and Accounting | Brunel University London |
| Fatima | Law | City, University of London |
| Gregory | Economics and Accounting | Brunel University London |
| Hamid | Business and Management | Brunel University London |
| Hanan | Pharmacy | University of Hertfordshire |
| Denis | Marketing | University of Kent |
| Harshraj | Computer Science | Kings College London |
| Ilanthiraiyan | Aerospace Engineering | Queen Mary University of London |
| Imraan | Criminology and Sociology | City, University of London |
| Isaac | Aerospace Engineering | University of Leicester |
| Jake | English Language and Creative Writing | Lancaster University |


| | | |
|----------------|---|--|
| Jennifer-Marie | Music Production | University of the Arts London |
| Khadija | International Relations | Queen Mary University of London |
| Khushal | Financial Economics | City, University of London |
| Mariam | Pharmacology | University of Portsmouth |
| Mihai | Management with Marketing | Royal Holloway |
| Mohammed | Civil Engineering | City, University of London |
| Nahum | Accounting and Management with Finance | Birkbeck, University of London |
| Nasteha | Radiography | City, University of London |
| Nazila | Psychology | City, University of London |
| Nicoleta | Psychology | Royal Holloway |
| Omar | Actuarial Science | London School of Economics and Political Science |
| Pranvera | Chemical Engineering | University of Bath |
| Sathurshan | Accounting and Management | Queen Mary University of London |
| Soumia | Dentistry | King's College London |
| Stefan | Biomedical Science | Anglia Ruskin University |
| Syan | Business and Management with a year in Industry | University of Kent |
| Tauheed | Business Information Systems | University of East Anglia (UEA) |
| Uday | Accounting and Management | Queen Mary University of London |
| Umakheir | Criminology and Sociology | City, University of London |
| Usmaan | Finance and Business Management | University of Westminster |

 Russell Group, Medicine, Dentistry & Veterinary Medicine

2023 DESTINATIONS

| | | |
|----------|--|----------------------------------|
| Mario | Games and Level Design | Middlesex University |
| Ayma | Psychology (Child Development) | London Southbank |
| Muaad | International Political Economy | City, University of London |
| Marua | Marketing | Goldsmiths, University of London |
| Shaqeeb | Accounting & Business Management | Brunel University |
| Fardeen | Economics | University of Greenwich |
| Denis | Criminology | City, University of London |
| Sirush | Consumer Behaviour and Marketing | University of Reading |
| Ovidiu | Forensic Science | University of Wolverhampton |
| Adrian | Sport Rehabilitation | St Mary's University, Twickenham |
| Nicolas | Finance and Investment Banking | University of Greenwich |
| Dhruv | Accounting and Management | Queen Mary University of London |
| Hani | Business Studies | University of West London |
| Numan | Cyber Security & Digital Forensics | Kingston University |
| Isaiah | Law and Criminology | University of Kent |
| Andreea | Accounting & Finance | Durham University |
| Ama | Business Management (Marketing) | Middlesex University |
| Aisha | Medicine | Queen Mary University of London |
| Alisha | Biomedical Science | University of Hertfordshire |
| Adraa | Criminology with placement | University of Bath |
| Rudra | Accounting and Finance | Royal Holloway |
| Umaashan | Economics | City, University of London |
| Rama | Primary Education (with QTS) | University of Hertfordshire |
| Surinder | Accounting & Business Management | Brunel University |
| Hana | Childhood Studies with Primary Education | Buckinghamshire New University |

| | | |
|----------|---|-----------------------------|
| Salmo | Dietetics | University of Hertfordshire |
| Arqam | Computer Science | City, University of London |
| Khadar | Pharmacy | Kingston University |
| Rafael | Law | City, University of London |
| Ewan | Science | University of Leeds |
| Weronika | Computer Science (Data Science) | University of Greenwich |
| Om | Sport Management | University of Derby |
| Aran | Biomedical Science | University of Warwick |
| Marcel | Sport and Exercise Rehabilitation | Middlesex University |
| Abdul | Pharmacy | UCL |
| Roble | Computer Science | Kingston University |
| Amal | Politics and International Relations | University of Nottingham |
| Abdalla | Accounting & Business Management | Brunel University |
| Serena | Law and Korean | SOAS |
| Devonte | Business Management & Entrepreneurship | Brunel University |
| Ali | Human Nutrition | University of Westminster |
| Ani | Biomedical Science | University of Westminster |
| Aya | Biomedical Science | University of Westminster |
| Amelia | Marketing | Goldsmiths University |
| Sankalp | Medicine | Buckingham University |
| Andrei | Computer Science (Software Engineering) | Royal Holloway |
| Menossan | Medical Sciences | University of Sheffield |
| Shrey | Business | Nottingham Trent University |

 Russell Group, Medicine, Dentistry & Veterinary Medicine

LEARNER VIEWS



SHERAZ

YEAR 13 STUDENT

"Since day one I have had the necessary support to bridge the gap from GCSES to A levels. This can be very challenging but was made very manageable and smooth thanks to the incredible staff. We have excellent programmes and targeted one-to-one interventions that focus on students' weaknesses which is a rarity in most other sixth forms simply because of the large number of students attending."



CLAUDIU

YEAR 13 STUDENT

"I really like this sixth form community. As a new Year 12 student, the teachers were very welcoming and supportive. They really care about their subjects and want to help us achieve our best in them. We are not only given the opportunity to grow academically, but are also encouraged and prepared to become independent adults outside of school life."



PRANVERA

SIXTH FORM ALUMNI

"Harrow High Sixth Form is a small, tight knit community. I feel supported by my teachers and the sixth form team, with the small class sizes meaning you get a lot of 1:1 support and targeted learning. As well as this, the chance to take on a Student Leadership role gives me the opportunity to build skills and experience which will strengthen my applications for universities and jobs."



WERONIKA

SIXTH FORM ALUMNI

"One of the best aspects of the Sixth Form is having smaller classes. It allows my lessons to be more interactive, as teachers have the time to attend to each student. This means that during lessons at A Levels there is more time allocated to filling gaps in knowledge, and thoroughly testing and rehearsing content."

PARENTS' VIEWS

The quality of care and encouragement from Harrow High Sixth Form was second to none. This might sound like a cliché, but as a parent I shall be eternally grateful to Harrow High and I have recommended the Sixth Form to many others. Thank you HHS and Sixth Form for your continued support of my son, and pushing him socially, mentally and academically to achieve.

I would like to thank Harrow High for all the support and encouragement given to my daughter throughout the years she studied in the school. This truly allowed her to have an amazing academic journey as well as make some amazing memories. Thank you for always taking care of her and truly believing that she was able to be successful.



SUBJECT INFORMATION:



Having smaller class sizes means we can establish good relationships with our teachers where they have a strong understanding of each student's needs.

YEAR 13 LEARNER

”



Entry Requirements:

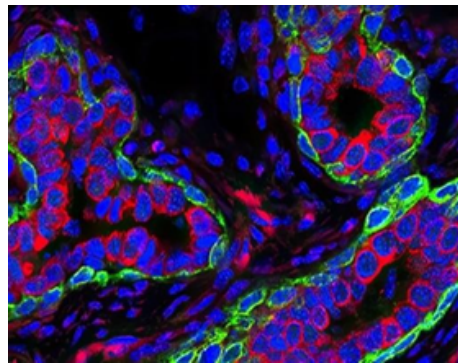
For A Level courses: 8 GCSEs at Grades 5–9 inc. Maths & English at Grade 5, plus subject specific entry requirements (see course descriptions on the following pages).

For BTEC courses: 5 GCSEs at Grades 4–9 inc. Maths & English at Grade 4 or above in one of the two, and Grade 3 or above in the other.

BIOLOGY

STUDENT QUOTE:

I love Biology because it enables me to explore further the complexity of living things, from the atomic level to ecosystems, and to investigate the underlying ideas that govern life itself. It provides a deep understanding of the natural events of life and the interconnected nature of all living things.



YOU WILL STUDY:

- Biological molecules, and their production in (and interaction with) cells
- Exchange of substances between organisms and their environment
- Genetic information, variation and relationships between organisms
- Energy transfers in and between organisms
- How organisms respond to changes in internal and external environments
- Mechanisms involved in the control of gene expression
- Modern gene technology methods

CHOOSE BIOLOGY IF YOU LIKE:

- Learning even more about how living organisms work and interact with each other
- Numerous opportunities to use practical experiences to link theory to reality, and develop essential practical skills
- Developing a deep understanding of fundamental biological processes, far beyond GCSE

OTHER SUBJECTS THAT GO WELL WITH BIOLOGY INCLUDE:

- Psychology
- Maths
- Chemistry
- Geography

AN A-LEVEL IN BIOLOGY CAN LEAD TO:

The skills earned by students who study Biology are highly valued by employers. Students with a Biology degree go onto a wide range of careers including: medicine, dentistry, research science, pharmacology, ecology, forensic science, nature conservation, teaching, plus many aspects of healthcare.

EXAMPLE EXAM QUESTIONS

1. Contrast how an optical microscope and a transmission electron microscope work and contrast the limitations of their use when studying cells.

(6 marks)

2. During the light-independent reaction of photosynthesis, carbon dioxide is converted into organic substances. Describe how.

(6 marks)

3. Write an essay on the importance of diffusion in organisms.

(25 marks)

SUBJECT TEACHERS

Mr Patel
Mr Johnson
Ms Esmail

ENTRY CRITERIA

Grade 6 in Combined Science & Maths

BUSINESS

STUDENT QUOTE:

The course is great, as it allows you to learn about the internal and external factors which impact a organisation. The recent events in the world, such as the pandemic and cost of living really bring the subject to life and you understand more about the world through learning this subject in depth.

”



YOU WILL STUDY:

- Marketing & people: You will understand how businesses meet customer needs, the promotional, pricing & placing strategies of products/services to meet these wants and needs.
- Managing business activities: You will develop an understanding of raising finance, financial planning, managing finance, resource management, external influences.
- Business decisions & strategies: You will evaluate the decision-making techniques business leaders carry out and the influences on business decisions. As well as, assessing competitiveness and managing change.
- Global business: You will analyse globalisation and its impact on societies. The reason for business expansion and what to consider when expanding to international markets (multinational corporations).

CHOOSE BUSINESS IF YOU LIKE:

- Analysing the business world and finding solutions to potential problems
- Advertisement and branding
- Economics and connecting theory to the real-world
- Critical writing
- Would like to start your own business and go global!

OTHER SUBJECTS THAT GO WELL WITH BUSINESS INCLUDE:

- Sociology
- Psychology
- Economics
- Maths
- English

AN A-LEVEL IN BUSINESS CAN LEAD TO:

Developing a wide range of skills which are transferable to the working world. These skills include problem-solving, research and communication skills. Many learners have gone on to achieve great careers in the following roles; Accountants, Business advisers, Consultants, Corporate Investment Bankers, Data scientists, Stock Market Analysts. Many have also started their own successful business.

EXAMPLE EXAM QUESTIONS

1. Assess two methods The Good Hotel could use to develop customer loyalty.
2. Assess whether a Unique Selling Point is the most important factor in determining a pricing strategy.
3. Evaluate two influences and recommend which influence would have the greatest impact on Tails.com.

SUBJECT TEACHERS

Mr Wahid
Ms Bowen
Mr Corner

ENTRY CRITERIA

Grade 6 in English Language

CHEMISTRY



STUDENT QUOTE:

Chemistry is where the future is. I want to be on the cutting edge where I'm making a difference in the world. I've always been interested in how the world works and studying Chemistry allows me to explore that through a scientific lens.

”

YOU WILL STUDY:

- **Physical Chemistry:** Atomic structure revises the idea of the atom, amount of substance is quantitative chemistry, bonding revisits the three types of strong bonds that hold atoms together, energetics introduces the concept of enthalpy, kinetics deals with the rate, and equilibria talks about reversible reactions.
- **Inorganic Chemistry:** Gives an overview of the periodic table and classifies block of elements including group 2 and group 7 .
- **Organic Chemistry** Looks at the nature of carbon compounds.
- **Alkanes** is about crude oil and fractional distillation
- **Haloalkanes** looks at how these compounds are formed and react.

CHOOSE CHEMISTRY IF YOU LIKE:

- Learning about how chemical industries work and interact with other sectors like pharmaceuticals , healthcare and polymer industry.
- Numerous opportunities to do experiments and develop essential practical skills.
- The connection between theory and real world and most recent research going on in Chemistry.

OTHER SUBJECTS THAT GO WELL WITH CHEMISTRY INCLUDE:

- Mathematics
- Physics
- Biology
- Psychology

AN A-LEVEL IN CHEMISTRY CAN LEAD TO:

Knowledge of Chemistry at A level or above can help you find intellectually stimulating and lucrative work teaching and doing research. By becoming a professional chemist, you can help discover breakthrough medicines, work on creating new materials, or even help solve the human body's mysteries.

EXAMPLE EXAM QUESTIONS

1. Define the term 'enthalpy of combustion'.
(2 marks)
2. What are the steps involved in recrystallisation in making of Aspirin?
(6 marks)
3. This question is about the synthesis of propylamine ($\text{CH}_3\text{CH}_2\text{CH}_2\text{NH}_2$) by the reaction of 1-iodopropane ($\text{CH}_3\text{CH}_2\text{CH}_2\text{I}$) with an excess of ammonia.



- (a) Name and outline the mechanism for this reaction.

SUBJECT TEACHERS

Mrs Askari

ENTRY CRITERIA

Grade 6 in Combined Science & Maths

COMPUTER SCIENCE

STUDENT QUOTE:

I like Computer Science because it's like making maths dance.

”



YOU WILL STUDY:

- The characteristics of contemporary processors, input, output and storage devices
- Software and software development
- Exchanging data
- Data types, data structures and algorithms
- Legal, moral, cultural and ethical issues
- Elements of computational thinking
- Problem solving and programming
- Algorithms to solve problems and standard algorithms
- The learner will choose a computing problem to work through according to the guidance in the specification: Analysis of the problem; Design of the solution; Developing the solution; Evaluation

CHOOSE COMPUTER SCIENCE IF YOU LIKE:

- Science: CS is fully embedded in all science degrees
- Technology: CS looks at the natural world through a digital prism
- Engineering: Computational thinking provides a framework within which to reason about problems;
- Maths: Programming brings your maths alive and lets you create, invent and excite

OTHER SUBJECTS THAT GO WELL WITH COMPUTER SCIENCE INCLUDE:

- Mathematics
- Economics
- Physics
- Chemistry
- Biology
- English

AN A-LEVEL IN COMPUTER SCIENCE CAN LEAD TO:

A lucrative career in science, technology, engineering, finance, banking, cybersecurity, etc. Careers in these fields can make a positive impact on the world, where you work towards solving complex problems.

EXAMPLE EXAM QUESTIONS

1. Functions and procedures are reusable components. Give two benefits of writing a program with reusable components.
2. Show how a merge sort will sort this (shown) section of the array number. Array into ascending numerical order.
3. Trace the (given) recursive function calculate() and give the final return value, when the following function call is run:
calculate(5)

SUBJECT TEACHERS

Mr Feleppa
Mr Rasvan

ENTRY CRITERIA

Grade 6 in Computer Science

ECONOMICS



STUDENT QUOTE:

Studying Economics has given me mental models to better navigate the “why” behind real-world decisions, be it government policies or anything else. It teaches you that every choice has consequences and explains why the world is the way it is.

”

YOU WILL STUDY:

Microeconomic topics include the study of markets, supply and demand, scarcity, market failure, the labour market, government intervention, business objectives, production costs, revenue and profits.

Macroeconomic topics look at the bigger picture of how the economy operates and includes topics such as inflation, unemployment, financial markets, game theory, inequality, globalisation and development.

However, the emphasis will be that macroeconomic and microeconomic concepts are deeply interdependent.

CHOOSE ECONOMICS IF YOU LIKE:

- Staying informed with current economic issues
- Connecting dots between theories to see the bigger picture
- Working with numerical and graphical data/diagrams
- Thinking analytically and questioning the status quo
- Communicating ideas through a method of logical reasoning

OTHER SUBJECTS THAT GO WELL WITH ECONOMICS INCLUDE:

- Mathematics
- Further Mathematics
- History
- Geography

AN A-LEVEL IN ECONOMICS CAN LEAD TO:

Studying Economics equips learners with a wide range of transferable skills to future-proof your career and increase your earning potential. These skills include problem-solving, research and communication skills. Many learners go on to pursue successful careers that include (but are not limited to) banking, insurance and accounting.

EXAMPLE EXAM QUESTIONS

1. Explain one reason why the UK central bank used quantitative easing following the Global Financial Crisis of 2008.
(2 marks)
2. Amazon Prime, Netflix and Now TV all charge £7.99 per month for streaming very similar film and television services.
(a) The most likely cross price elasticity of demand for close substitutes is:
A) -2.1 B) -0.1 C) +0.1 D) +2.1
(1 mark)
3. With reference to Figure 2 and Extract A, discuss the possible impact of supermarket monopsony on both food suppliers and consumers.
(12 marks)

SUBJECT TEACHERS

Mr Gamble
Miss Bahloul

ENTRY CRITERIA

Grade 6 in English Language

ENGLISH

STUDENT QUOTE:

I love reading a range of different texts written at different times. Learning about how writers felt and what influenced their writing is fascinating! I have learnt so much already from this course – it has given me so much knowledge and awareness of different ideas and places that I would never have heard of – I really recommend this course!

”



YOU WILL STUDY:

A range of literary and non-fiction written and spoken texts.

The course also enables students to develop your creativity and expertise by producing your own original writing.

You will explore texts of greater variety and challenge than those encountered at GCSE and learn to apply linguistic and literary concepts and methods to your analysis of texts.

CHOOSE ENGLISH IF YOU LIKE:

- Reading
- Analysing texts
- Writing stories
- Reading a wide range of fiction and non fiction texts
- Expressing your opinions on a wide range of topics

OTHER SUBJECTS THAT GO WELL WITH ENGLISH INCLUDE:

- History
- Sociology
- Biology
- Politics
- Psychology

AN A-LEVEL IN ENGLISH CAN LEAD TO:

- Excellent writing skills
- A career in fields such as law and journalism
- Excellent skills to study any course at university

EXAMPLE EXAM QUESTIONS

1. Carefully read the two texts and compare the ways in which the writer in Text A and the speaker in Text B use language to convey meaning.
2. Explore how Blake presents ideas and attitudes towards the poverty and suffering of children in 'Holy Thursday' (E) and make connections with one or two other poems from your collection. You should consider Blake's use of poetic and stylistic techniques and significant literary or other relevant contexts.
3. Choose one of the storylines below to develop as the opening of a narrative.

SUBJECT TEACHERS

Mr Guglietti
Ms Grunwald

ENTRY CRITERIA

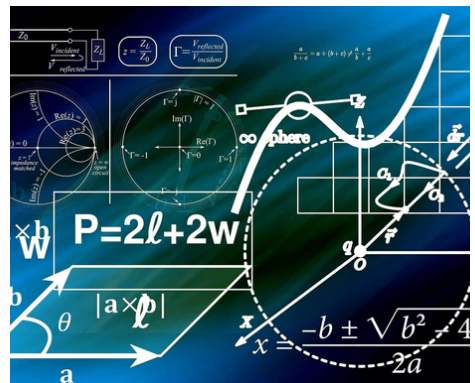
Grade 6 in English Language
& English Literature

FURTHER MATHS

STUDENT QUOTE:

Maths is an incredibly interesting subject which not only boosts my logical thinking skills but will also help me get access to lots of career opportunities, such as medicine, engineering and computer science.

”



YOU WILL STUDY:

Pure Mathematics

Proof; complex numbers; matrices; further algebra and functions; further calculus; further vectors; polar coordinates; hyperbolic functions; and differential equations.

Further Pure, Further Statistics or Further Mechanics

Groups; matrix algebra; number theory; sequences and series; Poisson and binomial distributions; geometric and negative binomial distributions; central limit theorem; Momentum and impulse; work, energy and power; elastic strings and springs; elastic collision

CHOOSE FURTHER MATHS IF YOU LIKE:

- Solving challenging problems
- Taking concrete concepts into the abstract

OTHER SUBJECTS THAT GO WELL WITH FURTHER MATHS INCLUDE:

- Maths
- Physics
- Chemistry

SUBJECT TEACHERS

Ms Price
Mr Buchanan

AN A-LEVEL IN FURTHER MATHS CAN LEAD TO:

Maths is an incredibly valuable A-Level and students with this qualification are highly sought after by employers and universities. Mathematics can lead to further study or employment in a wide range of areas including: engineering, economic, medicine, accounting and finance, astronomy, meteorology, and computer programming.

EXAMPLE EXAM QUESTIONS

1. Prove that, for $n \in \mathbb{Z}$, $n \geq 0$

$$\sum_{r=0}^n \frac{1}{(r+1)(r+2)(r+3)} = \frac{(n+a)(n+b)}{c(n+2)(n+3)}$$

where a , b and c are integers to be found.

2. Prove by induction that for all positive integers n

$$f(n) = 3^{2n+4} - 2^{2n}$$

is divisible by 5

ENTRY CRITERIA

Grade 8 in Maths

GEOGRAPHY

STUDENT QUOTE:

Studying Geography allows me to understand the processes that enable our world to function, both from a human and physical perspective. Being able to discover the complexities of the world through this subject is fascinating!

”



YOU WILL STUDY:

- Human Geography:
Global Governance & Financial Systems;
Urbanisation Trends & Implications; Changing Places.
- Physical Geography:
Water & Carbon Cycles; Hot Desert Systems & Landscapes; Hazards.
- Fieldwork:
Fieldwork Techniques & Theory; 3000-4000 Word project based on A2 trip.

CHOOSE GEOGRAPHY IF YOU LIKE:

- World affairs & the ability to interpret what is going on around you
- Using systematic thinking to solve real world problems
- Knowing about places, people & processes

OTHER SUBJECTS THAT GO WELL WITH GEOGRAPHY INCLUDE:

- Biology
- Physics
- Sociology
- History
- Maths

AN A-LEVEL IN GEOGRAPHY CAN LEAD TO:

Fantastic prospects in a wide variety of jobs based on your problem solving skills. Popular options include work in government, journalism & education.

EXAMPLE EXAM QUESTIONS

1. Assess to what extent global governance faces unprecedented challenges as a result of globalisation.
(20 marks)
2. Evaluate the success of mitigation strategies in a multi-hazard environment like Bangladesh.
(20 marks)
3. (On fieldwork enquiries) – Assess the quality of flood defences in Norfolk and how well they reduce the risk from physical processes.

SUBJECT TEACHERS

Mr Desai
Ms McIntosh

ENTRY CRITERIA

Grade 6 in Geography

HISTORY

STUDENT QUOTE:

We love History because we study really interesting topics, for example, the USSR and its influence on the modern period. Studying History has developed my understanding of the world we live in today.

”



YOU WILL STUDY:

Paper 1: Breadth Study with Interpretations: Russia 1917–91.
You will study Russia's twentieth century and investigate the political, economic and social features of communist rule.

Paper 2: Depth Study: Mao's China, 1949 – 76.
You will gain an understanding of the transformation of Communist China between the years 1949–76 and how the aftershocks are being felt today.

Paper 3: Themes in depth with aspects in depth:
Britain: losing and gaining an Empire, 1763 –1914.
You will study how the British Empire developed in terms of social, economic and its political aspects and its expansion into America, India, Australia, Canada & Egypt.

Coursework: To choose a topic of your choice to ensure you develop the skills of analysis and evaluation of interpretations in History.

CHOOSE HISTORY IF YOU LIKE:

- Challenging generalised narratives and interpretations
- Handling contemporary evidence critically
- Reading widely, thinking critically and creating your own original arguments.

OTHER SUBJECTS THAT GO WELL WITH HISTORY INCLUDE:

- Politics
- English Literature
- Economics

SUBJECT TEACHERS

Mrs Riani
Mr Bruce

AN A-LEVEL IN HISTORY CAN LEAD TO:

A range of different careers including law, politics, journalism, teaching, consultancy, accountancy and the media. However, the focus on independent research and extended writing helps History to be considered as a highly academic A Level which equips you with skills that are both useful for further study of any discipline at undergraduate level and which are desired by many employers.

EXAMPLE EXAM QUESTIONS

1. How far did Stalin's use of terror during the 1930's differ from that of Lenin's?
(20 marks)
2. To what extent did Stalin's power over the Party change between 1928 & 1953?
(20 marks)
3. Was terror the main method by which the Bolshevik leadership exercised control over the party between 1917 & 1924? Explain your answer.
(20 marks)

ENTRY CRITERIA

Grade 6 in History

ITALIAN

STUDENT QUOTE:

I've always been interested in studying abroad while at university and studying Italian at A Level has given me the confidence to do this. Having the freedom to communicate with people in a different language is amazing.

”



YOU WILL STUDY:

Paper 1 – Listening, Reading, and Translation

- Changes in Italian Society & Political and Artistic culture in Italian-speaking Countries
- Multiculturalism in Italy & Aspects of Political Life in Italy

Paper 2 – Written response to works and translation

- Literary work and film to be selected

Paper 3 – Speaking

- Individual Research Project (on a topic of your choice)
- Stimulus card and discussion on one of the topics from Paper 1

CHOOSE ITALIAN IF YOU LIKE:

- The idea of speaking another language! The opportunities that this can provide both in terms of job prospects and life opportunities are fantastic.
- Film and literature. You will study a film and a book.
- Learning about different cultures and traditions, e.g. festivals.

OTHER SUBJECTS THAT GO WELL WITH ITALIAN INCLUDE:

- Anything! A foreign language complements most subjects!

AN A-LEVEL IN ITALIAN CAN LEAD TO:

All sorts of different careers! Languages are a great skill that are highly valued by employers. There are a number of careers that are directly linked to language learning, e.g. becoming a translator, teacher, or working in tourism. However, languages can also set you apart from other candidates when applying for a range of other jobs. Speaking Italian can make you a very appealing candidate for some jobs and also potentially provide you with some really exciting opportunities for travel and living abroad.

EXAMPLE EXAM QUESTIONS

1. Nel romanzo *Io non ho paura* (Niccolò Ammaniti), analizza l'importanza dell'immaginazione di Michele nel romanzo.
(50 marks)
2. Nel film *Nuovo Cinema Paradiso* (Giuseppe Tornatore), esamina l'impatto delle tecniche cinematografiche sullo spettatore.
(50 marks)

SUBJECT TEACHERS

Ms Serena

ENTRY CRITERIA

Grade 6 in Italian

PHYSICS

STUDENT QUOTE:

A Level Physics has helped me improve my analytical and research skills. I've learnt to investigate theories and devise tests, and have been able to explore some really exciting new ideas.

”



YOU WILL STUDY:

Particles and Radiation where you will look inside the atom and the relationship between energy and matter. Waves and Optics you will look at the behaviour of stationary waves and progressive waves as well as doing investigations on double slits interference/diffraction.

In Mechanics and Materials you will calculate g and young's modulus and also look at projectiles.

The penultimate topic in year 12 is Electricity you will look at new ideas such as resistivity and Electromotive force and internal resistance.

And Finally the Skills In AS Physics topic helps you bridge the gap between GCSE and A Level and helps you with making careful measurements, using everyday Physics instruments and maths skills such as trigonometry and algebra.

CHOOSE PHYSICS IF YOU LIKE:

- How Physics is the basis of all modern technology and would like to know how tools and instruments used in scientific, engineering and medical research and development work. And always remember, Doctors that don't understand Physics can be dangerous!

OTHER SUBJECTS THAT GO WELL WITH PHYSICS INCLUDE:

- Mathematics
- Biology
- Chemistry
- Psychology

AN A-LEVEL IN PHYSICS CAN LEAD TO:

- High levels of problem solving skills, which will benefit you in degrees such as medicine and engineering.
- A range of exciting careers such as meteorology and aerospace engineering, where your work will involve product design and structure analysis of spacecraft like planes, rockets, and satellites.

EXAMPLE EXAM QUESTIONS

1. An isolated solid conducting sphere is initially uncharged. Electrons are then transferred to the sphere. State and explain the location of the excess electrons.
2. Fission and fusion are two processes that can result in the transfer of binding energy from nuclei. State what is meant by the binding energy of a nucleus.

SUBJECT TEACHERS

Mr Ahmed
Mr Katbamna

ENTRY CRITERIA

Grade 6 in Combined Science & Maths

SOCIOLOGY

STUDENT QUOTE:

Sociology is the perfect subject for me as it's given me the tools I need to analyse the world around me. I get an in depth insight into fascinating aspects of the human experience.



YOU WILL STUDY:

- **The Sociology of Education:** You'll consider the role of education in society. For example, as part of your studies you will investigate class, gender and ethnic differences in educational achievement and the different explanations for these social facts
- **Research methods:** You'll learn how to conduct your own sociological research, from interviews to reviewing documents and official statistics.
- **The Sociology of Families and Households:** You will consider the role families play in society and how the family has changed over time
- **Beliefs in Society:** You will consider the characteristics and roles of various belief systems in society (Science, Ideology and Religion)
- **The Sociology of Crime and Deviance:** You will consider the reasons why crime exists in society and evaluate sociological explanations for crime and deviance

CHOOSE SOCIOLOGY IF YOU LIKE:

- Asking questions about society
- Learning about and understanding key issues relating to class, gender, ethnicity, inequality

OTHER SUBJECTS THAT GO WELL WITH SOCIOLOGY INCLUDE:

- History
- Politics
- English
- Economics

SUBJECT TEACHERS

Mr Preda
Ms Francis

AN A-LEVEL IN SOCIOLOGY CAN LEAD TO:

Sociology is a great choice of subject for people who want a career in academia, social work, the Civil Service or government. The subject is also useful in several other careers, like marketing, politics, advertising, PR, journalism, law or teaching.

EXAMPLE EXAM QUESTIONS

1. Evaluate the view that class differences in education are best explained by marketisation policies.
2. Outline and explain two reasons why nuclear families are well suited to industrial society.
3. Assess the view that religion is a force for social change.

ENTRY CRITERIA

Grade 6 in English Language

PSYCHOLOGY

STUDENT QUOTE:

Studying Psychology has broadened my perspectives on why people behave the way they do and helps me understand that everyone has a different perception of things in the world.

”



YOU WILL STUDY:

- **Social Psychology:** Reasons for obedience and prejudice behaviour in people.
- **Cognitive Psychology:** Memory processes, thinking and understanding learning difficulties such as dyslexia.
- **Biological Psychology:** Brain functions and processes, such as how neurotransmitters function including reasons for aggressive behaviour.
- **Learning Psychology:** Classical conditioning, operant conditioning and social learning theory.
- **Clinical Psychology:** Study two common mental health disorders; schizophrenia and anorexia.
- **Child Psychology:** understanding the development of attachments between parent and child relationships with a key focus on John Bowlby's theories.
- **Issues and Debates:** Studying a vast array of psychological debates in society such as nature versus nurture.

CHOOSE PSYCHOLOGY IF YOU LIKE:

- Brain processes and finding out why people behave the way they do.
- Conducting practical investigations and using data to analyse, interpret and draw conclusions from the findings.
- Understanding learning difficulties such as dyslexia, memory impairments and autism.
- Understanding why we make certain choices as adults due to childhood experiences.

OTHER SUBJECTS THAT GO WELL WITH PSYCHOLOGY INCLUDE:

- Biology
- English
- Sociology
- Business Studies

AN A-LEVEL IN PSYCHOLOGY CAN LEAD TO:

- A degree in Criminology, Child Psychology, Clinical Psychology, Forensic Psychology, Educational Psychology, Criminal Law.
- Careers include Occupational Therapy, Counselling, Researcher Analyst and Neurology.

EXAMPLE EXAM QUESTIONS

1. Using research describe the advantages of using day care.
(3 marks)
2. Evaluate social impact theory as an explanation for obedience.
(8 marks)
3. Assess the role of both nature and nurture in Psychology.
(20 marks)

SUBJECT TEACHERS

Mrs Corner

ENTRY CRITERIA

Grade 6 in Combined Science & Maths

SPANISH

STUDENT QUOTE:

I love learning Spanish to be able to connect with the millions of diverse people that speak the second most spoken language in the world. The development of the Hispanic world and culture is the most interesting aspect.

”



YOU WILL STUDY:

Paper 1 – Listening, Reading, and Writing

- Aspects of Hispanic Society & Artistic Culture in the Hispanic World
- Multiculturalism in Hispanic Society & Aspects of political life in Hispanic Society

Paper 2 – Writing

- Literary work and film to be selected

Paper 3 – Speaking

- Individual Research Project (on a topic of your choice)
- Photo card and discussion on one of the topics from Paper 1

CHOOSE SPANISH IF YOU LIKE:

- The idea of speaking another language! The opportunities that this can provide both in terms of job prospects and life opportunities are fantastic.
- Film and literature. You will study a film and a book.
- Learning about different cultures and traditions, e.g. festivals.

OTHER SUBJECTS THAT GO WELL WITH SPANISH INCLUDE:

- Anything! A foreign language complements most subjects!

AN A-LEVEL IN SPANISH CAN LEAD TO:

- All sorts of different careers! Languages are a great skill that are highly valued by employers.
- There are a number of careers that are directly linked to language learning, e.g. becoming a translator, teacher, or working in tourism. However, languages can also set you apart from other candidates when applying for a range of other jobs.
- Many companies now have offices and clients in Spain and across Latin America so speaking Spanish can make you a very appealing candidate and also potentially provide you with some really exciting opportunities for travel and living abroad.

EXAMPLE EXAM QUESTIONS

1. Analiza el tema de la guerra en la película El Laberinto del Fauno. ¿Cuáles son las técnicas que utiliza el director para evocar la época en la que transcurre la historia?
(40 marks)
2. 'En la novela La Casa de los Espíritus, las mujeres principales heredan de su madre una clara conciencia de justicia social'. Analiza esta afirmación, justificando tus ideas.
(40 marks)

SUBJECT TEACHERS

Ms Ortega

ENTRY CRITERIA

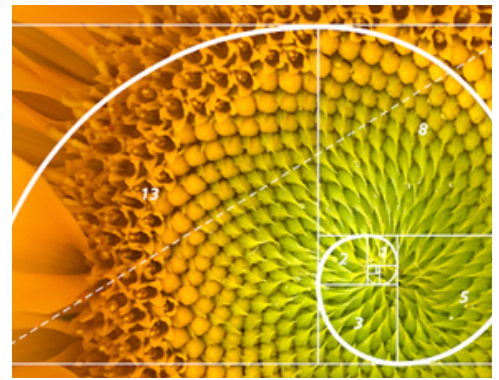
Grade 6 in Spanish

MATHS

STUDENT QUOTE:

Maths is a fascinating subject which allows a wonderful gateway for our careers. Engineering, computing and even subjects like architecture need Maths!

”



YOU WILL STUDY:

Pure Mathematics

- Algebraic methods; exponentials and logarithms; calculus; parametric equations; numerical methods; and binomial expansion.

Statistics

- Measures of location and spread; probability distributions; hypothesis testing; probability; and correlation

Mechanics

- Constant acceleration; forces and motion; variable acceleration; moments; projectiles

CHOOSE MATHS IF YOU LIKE:

- Solving challenging problems and getting to the 'lightbulb' moment at the end.
- Developing your skills in problem solving and logical thinking.
- Working systematically and logically.
- How deep and richly connected Maths is.

OTHER SUBJECTS THAT GO WELL WITH MATHS INCLUDE:

- Further Maths
- Physics
- Chemistry
- Biology
- Economics
- Computer Science

AN A-LEVEL IN MATHS CAN LEAD TO:

- Maths is an incredibly valuable A-Level and students with this qualification are highly sought after by employers and universities. Mathematics can lead to further study or employment in a wide range of areas including: engineering; economics; medicine; accounting and finance; astronomy; meteorology; and computer programming.

EXAMPLE EXAM QUESTIONS

1. Show that $\int_0^2 2x\sqrt{x+2} \, dx = \frac{32}{15}(2 + \sqrt{2})$

2. Solve, for $-180^\circ \leq \theta \leq 180^\circ$, the equation

$$5 \sin 2\theta = 9 \tan \theta$$

giving your answers, where necessary, to one decimal place.

3. Prove that for all $n \in \mathbb{N}$, $n^2 + 2$ is not divisible by 4

SUBJECT TEACHERS

Ms Price
Mr Buchanan
Ms Ngatia
Mr Hooper

ENTRY CRITERIA

Grade 6 in Maths

APPLIED SCIENCE – BTEC EXTENDED DIPLOMA

STUDENT QUOTE:

I will gain valuable hands-on experience which can take me straight into a career in the industry and let me progress to higher education.

”



YOU WILL STUDY:

Seven mandatory units:

Unit 1: Principles and Applications of Science I

Unit 2: Practical Scientific Procedures and Techniques

Unit 3: Science Investigation Skills

Unit 4: Laboratory Techniques and their Application

Unit 5: Principles and Applications of Science II

Unit 6: Investigative Project

Unit 7: Contemporary Issues in Science

CHOOSE APPLIED SCIENCE IF YOU LIKE:

- Reading scientific and technical texts
- Extended writing
- Using your analytical skills
- Conducting practical experiments
- Preparation for assessment methods used in degrees

SUBJECT TEACHERS

Mrs Askari
Mr Ahmed
Ms Esmail
Mrs Vaghela

A BTEC IN APPLIED SCIENCE CAN LEAD TO:

This two year, full time course will enable you to meet entry requirements for higher education courses in the Applied Sciences sector. To support this transition into further study, learners can choose a pathway which focuses on a particular occupational area, such as biomedical science, analytical and forensic science, and physical science.

EXAMPLE EXAM QUESTIONS

1. Cerium oxide contains 81.4% cerium and 18.6% oxygen.
What is the empirical formula of cerium oxide?
Relative atomic mass of cerium = 140.1,
Relative atomic mass of oxygen = 16.0
(2 marks)
2. Define relative atomic mass and isotopic mass.
(2 marks)
3. What are the techniques used to do gram staining?
(2 marks)

ENTRY CRITERIA

5 GCSEs at Grades 4–9
including:

4/4 in Combined Science

Maths & English at Grade 4
or above in one of the two,
and Grade 3 or above in the
other.

BUSINESS – BTEC EXTENDED DIPLOMA

STUDENT QUOTE:

The course is great. You really get to understand all areas of Business and the reasons for big corporations making the decisions they do. I loved organising my own event. I have thoroughly enjoyed it and feel more confident in going out in the real world.

”



YOU WILL STUDY:

BTEC Business consists of 13 individual units.

Four units are exams on:

- Finance
- Marketing
- Leadership
- Decision making

The other nine units are coursework based and demand learners create their own business plan, organise an event, analyse customer service and go on work experience.

These 13 units make up the fundamentals of business and provide in depth knowledge in the world of business.

CHOOSE BTEC BUSINESS IF YOU LIKE:

- A mixture of examinations and coursework
- Relating theory to the real world
- Being creative and critical thinking
- Organising events
- The idea of starting up your own business

SUBJECT TEACHERS

Mr Wahid
Ms Bowen
Mr Corner

A BTEC IN BUSINESS CAN LEAD TO:

Many learners have gone on to achieve great careers in the following areas; Accountants, Business Advisers, Consultants, Corporate Investment Bankers, Data Scientists, Stock Market Analysts or have started their own successful business.

EXAMPLE EXAM QUESTIONS

1. Analyse two different types of leadership styles.
2. Create a promotional campaign for JD Sports.
3. Evaluate different motivational techniques and recommend one for your chosen business.

ENTRY CRITERIA

5 GCSEs at Grades 4–9
including:

Maths & English at Grade 4 or
above in one of the two, and
Grade 3 or above in the other.

HOW TO APPLY

Students from Harrow High School:

You will have a 1:2:1 meeting with Mrs Motiwala to complete the Harrow Common Application Form in January or February 2024.

Students from other Harrow Schools :

Complete the Harrow Common Application Form with your current school, listing Harrow High on your form.

Students from non Harrow Schools :

Complete Harrow Common Application Form (on our website), listing Harrow High on your form, and send it directly to us.

The staff allow you to challenge yourself and better yourself on a regular basis – making you question how you can develop as a person.

SIXTH FORM ALUMNI



Gayton Road, Harrow, HA1 2JG

School Reception: 0208 861 7300

Sixth Form: 0208 861 7366/7367

Email: office@harrowhigh.com



@HarrowHighSch

@HHS6th



HARROW
HIGH SCHOOL
SIXTH FORM