



HARROW INDEPENDENT COLLEGE

School of Mathematics, Science & Economics

Your Pathway to Top British Universities

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for
INTERNATIONAL COLLEGES

 **THE DUKE OF
EDINBURGH'S AWARD**

Principal's Message

Harrow Independent College (HIC) was founded by Mr Kandiah Kandeepan who has worked in the educational industry in the UK for almost 20 years. HIC offers full-time and part-time education for post-sixteen students.

HIC was formed as a subsidiary of Harrow Tutorial College which for five years has developed an exceptional reputation in delivering private classes in Mathematics, Science, Economics and English, particularly in the evenings and weekends, for pupils of a variety of different age groups. Earlier this year, by annexing a neighbouring building, HIC was formed and emerged as a new independent school in Harrow with a focus on small class sizes to maximise students' potential.

The GCE Advanced Level programmes at Harrow Independent College are well designed to promote higher education in a wide range of fields including: Medicine, Dentistry, Bio-Medicine, Optometry, Economics or Econometrics, Financial Mathematics, Engineering (Aerospace, Aeronautical, Electrical, Electronics, Mechanical, Civil, Chemical), Computer Science, Materials Science, English and many others.

The students will be expected to work hard with us and there will be regular testing throughout their study programme to ensure that students are absolutely prepared.

Our rigorous approach to teaching and learning enables our students to secure a place at a university for their chosen field of study. They will also receive both internal and external support on how to succeed in their UCAS application.


In short, Harrow Independent College will help students to reach their maximum potential by offering focused learning in small classes, personalised to each student's needs, which will provide an excellent pathway to exam and university application success.



Mr Kandiah Kandeepan

Principal, Harrow Independent College

MSc Imperial College, London
PGCE University of Greenwich

A group of four diverse students (three girls and one boy) are gathered outdoors, looking at a globe. The students are smiling and appear to be engaged in a collaborative learning activity. The background shows trees and a warm, golden light, suggesting a sunny day. A red semi-transparent box is overlaid on the upper right portion of the image, containing white text.

Helping students to reach their
maximum potential by offering
focused learning in small classes.

About Our College

Harrow Independent College (HIC) is a specialist sixth form college of Mathematics, Science and Economics, based in the heart of London's Harrow.

Philosophy

HIC believes that personal attention is the hallmark of a successful college. With this in mind, we have an average class size of six, and we allocate a personal tutor to every student.

The College strives to stimulate independent enquiry and intellectual curiosity and to foster a secure sense of individuality. This is achieved within a framework of sensible discipline based on sound moral values.

Teaching and Learning

Harrow Independent College benefits from a strong, competitive community which fuels student learning, but also from a relaxed relationship between staff and students, based on mutual trust and respect.

The College tailors its teaching abilities to individual student needs. From entry to HIC, the tutors work with each student to build a student plan consisting of negotiated individualised realistic targets alongside a work timetable to best ensure such aspirations are met. HIC has discovered that it is in fact those who struggle in a more traditional school environment who benefit most from such personal profiling and individualised attention.

As the student progresses at HIC so their ambitions and desires may change. Each week every student has a tutor meeting where the aims of the student plan may be iteratively amended as needed. This process continues until the student exits HIC. Many students are targeting medical schools or high-demand universities and so our target setting on these courses is especially rigorous. The main generalised target of HIC is to enable each students to achieve the outstanding grades they strive for so that they have the ability to enter into Russell Group and other universities.

We never lose sight of the very specific examination needs of each subject. HIC strongly believes examination testing to be integral to ensuring student success. Regular practice is a feature of which HIC is very proud. Students are tested once a fortnight in each subject, covering the previous fortnight's work. We find that this helps to build their confidence and motivation. Results are monitored and discussed with students. Concerns at this stage are reported to parents so that constructive conversations can take place between us. However, whilst grades remain the key focus we never forget the importance of gaining a breadth of knowledge across all subject areas.



Courses

HIC offers GCE 'A' levels in: Mathematics, Further Mathematics, Physics, Chemistry, Biology, Economics, ICT and Computer Science.

In addition, we also offer English, German, French, Spanish and Italian.

With this range of courses, we are able to cater for students wishing to approach all areas of study at university.

Student Support

In a world where qualifications are of ever increasing importance, the central concern of the College is to present each student with ambitious personal goals whilst ensuring that these are also realistic and attainable. It can be difficult to know which subjects to choose for Advanced level and so we are here to give expert advice on subject combinations. We have a wealth of knowledge about the university entrance system which means we can really help target the subject choices correctly.

The college is, however, a flexible environment and we do support freedom of movement between subjects and disciplines where it is felt this is needed. If we are not able to determine an exact programme of study at the start of a student's course, it may be possible to sit on a number of subjects for a short period. We can provide expert advice on the most suitable combination of subjects at interview (Face to face or Telephone) and during your course of study.

Our Expert Teaching Panel

Mr Kandiah Kandeepan
MSc Imperial College London, PGCE, BSc (Hons)
Principal & Head of Mathematics and Physics

Mr Kandeepan started his teaching career in the early 1990s with his top Advanced level results. His natural teaching abilities and systematic and structured approach has been praised by many students and parents.

After finishing his degree he started teaching at colleges in London and his passion for teaching motivated him to complete a PGCE. Furthermore, due to his career ambition and urge to become a top level teacher, he went on to study an MSc at Imperial College London.

He now has more than 20 years of teaching experience. Countless students have passed with top grades under his excellent and dedicated teaching. He is fully committed to enhancing the skills and knowledge of young students. Over the past 10 years many students have had to book in advance and wait for 2-3 months in order to get a place in his elite teaching group.

Kandiah is a thinker with great vision and also a person who can add value to the child's academic life. His teaching has elevated many students' mathematical and analytical skills and these students have moved on to top universities to read econometrics, engineering, computer science and mathematics. Many of his students have then gone on to work in an array of elite environments such as: Rolls-Royce, UBS Bank, City Bank, Goldman Sachs, Bank of America, Glaxo SmithKline (GSK), in the NHS, for the Bar Council and many other leading public and private sectors.

Dr Ahilan S Thampu (PhD)
Vice-Principal and Head of Science

Dr Thampu has a PhD in Biochemistry from the University of Dundee and has worked in highly reputed organizations including Imperial College and GlaxoSmithKline. Dr Thampu has published several scientific articles in highly regarded scientific journals. With a wealth of industrial and academic experience, he moved into teaching and worked in various colleges including Chelsea Independent College, Capel Manor College and The College of Haringey in various roles.

Currently, Dr Thampu is leading the science department in Harrow Independent College and teaching chemistry and biology. Dr Thampu is appreciated by his students for his expert knowledge in both his subjects and teaching style. He communicates well with his students, giving his students an easy understanding of complex topics.

Mr Niraj Shukla BSc (Hons)
Head of Economics

Niraj is a young and dynamic teacher who has been teaching for six years. He has a degree in Economics and Philosophy from the University of Nottingham and at secondary level he attended Merchant Taylors' School which means that he has an intimate understanding of the mechanics, style and approach of a top independent school. Niraj is an extremely passionate teacher and this stems from his passion for learning: he is currently studying part time (in his free time) for a degree in Mathematics and Physics and he is also a performing amateur pianist.

Dr Mahadevan Jegan
Mathematics Teacher

Dr Jegan studied at the University of Colombo, Sri Lanka (1999-2003), and graduated with a BSc (Hons) degree in Mathematics. He worked for one year as an instructor in Mathematics at the Department of Mathematics, University of Colombo. During this period he worked in a team to implement a Sri Lankan Mathematical Olympiad for the first time in Sri Lanka.

After that he came to UK to do his postgraduate studies in 2004. He did his postgraduate degree in Financial Mathematics at Cass Business School, London, graduating in 2006. Following that he did his PhD in Mathematics at City University London, graduating in 2013. During this period he also worked as a visiting lecturer for Cass Business School.

He has also worked as a private tutor for GCSE, AS and A2 students since 2004. He joined Harrow Independent College in March 2016 where he is now working as a Mathematics teacher.



An inspiring and energising environment to hone talents, sharpen intellect and build self-confidence.



Over 90% progression to
top British universities in highly
demanded disciplines.

University Progression

Over the past 5 years we have achieved above 90% progression to top universities in highly demanded disciplines.

HIC's carefully crafted University Progression System (UPS)

The HIC University Progression System (UPS) will help students to develop the skills, knowledge, competence, expertise and confidence needed to succeed at both university and the professional world. HIC teachers are constantly encouraging and developing analytical and thinking skills in each and every student. Alongside this the UPS provides the student with the right strategic and tactical approach to entry into higher education. As a result HIC students acquire the necessary expertise and capacity to both enter and excel at their chosen university.

HIC has many informal university progression arrangements. For example, prior to the UCAS application deadline, the College invites a variety of career advice specialists to present their degree pathways, career options, as well as give one to one advice on how to secure places at the top universities. HIC specialises in fostering students into higher education that will lead eventually to their attaining places in high-demand career ladders like medicine, dentistry and engineering.

Such careers require special and focused training even as early as at school, especially at the time when students are about to embark on their 'A' levels. HIC sets targets that are very high but always realistic. At this time, the HIC University Progression System empowers each student in making the most appropriate UCAS choices to ensure they secure their desired place at top universities and onward into their chosen career.

Our Degree Specialisations

- *Medicine*
- *Dentistry*
- *Electrical and Electronics Engineering*
- *Aerospace or Aeronautical Engineering*
- *Computer Systems Engineering*
- *Econometrics*
- *And many other*

Advanced level Mathematics

GCE Advanced Level Mathematics is an essential subject for many areas of study at university. The course deals with a number of topics including algebra, calculus, geometry and vectors. At HIC, the Advanced Level Mathematics qualification is from the Edexcel examination board. Edexcel is a JCQ (Joint Council for Qualifications) approved examination body in the United Kingdom.

The 'A' level Mathematics course is generally a two-year programme although it can be completed in one year as an intensive programme. Most university degrees welcome this 'A' level as part of a prospective student's entry qualifications.

At HIC special individual attention is given to every student, with each being given an Individual Learning Plan (ILP). Through rigorous teaching and learning classroom activities, students are able to improve their responses to exam style questions. Assessments, which take various forms, are used to track the progress of each student.

During the course, students are actively encouraged in applying for undergraduate courses in engineering, science, economics and technology. In addition to excellent teaching, HIC students will receive support and guidance to ensure they fulfil their maximum potential in their studies. HIC will provide guidance in selecting and applying to the most appropriate and realistic university course.

At HIC there is an opportunity to enter into Maths challenge competitions and to become a student subject leader of mathematics.

The highest grade attainable in A Level Mathematics is A*, worth 140 UCAS points for university entrance. The required grades for the chosen course at a university can be obtained at <https://www.ucas.com/ucas/undergraduate/choosing-course>



Advanced level Further Mathematics

GCE Advanced Level Further Mathematics involves many of the topics of A Level Mathematics (e.g. algebra, calculus, matrices, geometry and vectors) only to a greater depth. At HIC, the Advanced Level Further Mathematics qualification is from the Edexcel examination board. Edexcel is a JCQ (Joint Council for Qualifications) approved examination body in the United Kingdom.

Degree courses in various engineering disciplines such as electrical, electronics, mechanical and civil often insist students have passed 'A' level Further Mathematics. Other courses, such as some in Computer Engineering, also require the deeper level that Further Mathematics provides. Furthermore, there are a growing number of courses in economics and mathematics (e.g. Econometrics, Actuarial Science) where knowledge of Further Mathematics is essential.

Students can study Mathematics and Further Mathematics in parallel. The 'A' level Further Mathematics course is generally a two-year programme although it can be completed in one year as an intensive programme. Most university degrees within technology and engineering, welcome this 'A' level as part of a prospective student's entry qualifications. At HIC special individual attention is given to every student, with each being given an Individual Learning Plan (ILP). Through rigorous teaching and learning classroom activities, students are able to improve their responses to exam style questions. Assessments, which take various forms, are used to track the progress of each student.

During the course, students are actively encouraged in applying for undergraduate courses in engineering, science, economics and technology. In addition to excellent teaching, HIC students will receive support and guidance to ensure they fulfil their maximum potential in their studies. HIC will provide guidance in selecting and applying to the most appropriate and realistic university course.

At HIC there is an opportunity to enter into Maths challenge competitions and to become a student subject leader of further mathematics.

The highest grade attainable in A Level Further Mathematics is A*, worth 140 UCAS points for university entrance.



Advanced level Economics

With the reverberations of the recent “Great Recession” still being felt throughout the world, the study of Economics has never been more important. At its heart, Economics studies the connections between three essential elements in a country: consumers, producers and governments. This interconnectedness forms a fascinatingly complex web of relationships as money, goods and services are bought, sold and exchanged. The situation becomes even more interesting when other countries are taken into account – each vying to protect their own interests and each with their own motives.

In the A Level Economics course, students will learn about economic systems of both the small and the large scale – from individual businesses via whole countries to blocs such as the European Union. Using theoretical models and diagrams, the actions of each economic element can be analysed and their effects on others can be explored.

However, Economics is never just theoretical. The course moves from these models to real-world concerns, where the practical impact can be enormous. For example, the number of people fundamentally affected by The Great Recession in 2008 ran into billions. This is one of the many events studied in the A level, as we seek to understand the causes of such major incidents and to critically evaluate the policy responses by governments around the world.

Economics is related to many other subjects. It involves graphs and calculations that form an obvious link with Mathematics (although knowledge to A level Mathematics is not essential). The conflict between private and public interests and thus the level of inequality is an important aspect of both Philosophy

and Sociology. Similarly, books studied in English Literature often deal with societal problems – and many of these are inevitably economic. Also, studying significant economic events over the past century is in essence historical; and Geography is connected as a result of the rapidly growing emphasis on environmental concerns in Economics. Finally, Science and Economics are related now more than ever, as scientific research becomes more and more globalised and research funding is increasingly at the mercy of volatile market forces.

As a result of all these connections to other disciplines, the degree choices and ultimate career paths for Economics students are diverse. Perhaps the most common route is into banking and finance where Economics is of course vital. But many other careers, such as law and journalism, also value the analytical and critical thinking skills developed through the discussions and debates that form an essential part of the course.

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Advanced level Physics

GCE Advanced Level Physics deals with a number of topics including mechanics, electricity, magnetism, heat, light, sound and the Universe. At HIC, the Advanced Level Physics qualification is from the Edexcel examination board. Edexcel is a JCQ (Joint Council for Qualifications) approved examination body in the United Kingdom.

Degree courses in various engineering disciplines such as electrical, electronics, mechanical and civil generally insist students have passed 'A' level Physics. In addition some courses in material science require knowledge of 'A' level Physics. The number of universities now offering a Physics degree has recently grown significantly; all such programmes require 'A' level Physics.

The 'A' level Physics course is generally a two-year programme although it can be completed in one

year as an intensive programme. Most university degrees within technology and engineering, welcome this 'A' level as part of a prospective student's entry qualifications.

At HIC special individual attention is given to every student, with each being given an Individual Learning Plan (ILP). Through rigorous teaching and learning classroom activities, students are able to improve their responses to exam style questions. Assessments, which take various forms, are used to track the progress of each student.

During the course, students are actively encouraged in applying for undergraduate courses in engineering, science, economics and technology. In addition to excellent teaching, HIC students will receive adequate support and guidance to ensure they fulfil their maximum potential in their studies. HIC will provide guidance in selecting and applying to the most appropriate and realistic university course.

During the course, students are actively encouraged in applying for undergraduate courses in engineering, science, economics and technology. In addition to excellent teaching, HIC students will receive support and guidance to ensure they fulfil their maximum potential in their studies. HIC will provide guidance in selecting and applying to the most appropriate and realistic university course.

At HIC there is an opportunity to enter into Maths challenge competitions and to become a student subject leader of physics.

The highest grade attainable in A Level Physics is A*, worth 140 UCAS points for university entrance.



Advanced level Chemistry

Chemistry has the power to transform and recreate all of the substances we encounter in everyday life. The plastics, medicines, smart materials, and fertilisers that transform the modern world were all created by chemists. Chemistry underpins the conceptual framework and methodology of biochemistry and molecular medicine, and is at the heart of many major industries.

The 'A' Level Chemistry course is designed to develop a deep understanding of chemical processes. It will equip students with a coherent body of knowledge and excellent practical skills necessary for future study and employment in Chemistry, while providing you with thought provoking and engaging ideas. The course empowers students to: apply knowledge and understanding within a diverse range of situations; think and work more logically; observe accurately and communicate effectively.

The 'A' level Chemistry curriculum course covers areas from the physical aspects of energetics and atomic structure, through the nature of elements to the study of organic chemistry. This combines a sense of academic rigour with a sense of discovery and provides time for students to develop a strong sense of how the various branches of the subject intertwine.

Study of chemistry is an ideal preparation for a variety of professions and degree courses, such as Physical or Natural Sciences, Journalism, Economics, Medicine, IT and Dentistry. Chemistry graduates are highly sought after for their problem solving and analytical skills, with roughly half of chemistry graduates from Oxford working within major financial institutions in the City. Chemistry courses are increasingly varied, including options for language studies, years abroad and other opportunities.



Advanced level Biology

Biology is the study of living things. The 'A' level Biology course concerns all manner of things, from examining molecules that make up cells to human biology and studying the interactions between living things and the ecosystem. Moral and ethical issues are also considered, particularly through consideration of how modern developments affect the scientific community and society.

This 'A' level opens doors into disciplines and careers such as: Research, Health Care, Environmental Management and Conservation, Education, Biotechnology, Forensic science, Politics and Policy, Business and industry, Economics, Mathematics, and Science writing and communication.

The 'A' Level curriculum builds on the knowledge, understanding and skills developed at GCSE. Knowledge, understanding and skills developed within GCSE Maths and Chemistry are also relevant. The course is aimed at fostering an interest in and enthusiasm for Biology, including possible further study of the subject. Students will learn to appreciate how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society, while developing essential knowledge and understanding of different areas of the subject and how they relate to each other.



HIC teachers help and inspire our students to develop and demonstrate their skills and knowledge effectively, as well as building an in-depth understanding that goes beyond the curriculum. Discussion in the classroom is encouraged, for example on the effects of the human impact on biodiversity and in exploring ways in which these issues can be addressed.

Biology graduates are highly sought after because of the range of transferable skills they learn during their studies including the ability to: apply their knowledge to a diverse range of problems, create links between different pieces of knowledge, and harness data analytics.

Information & Communication Technology

ICT has become an integral and accepted part of everyday life for many people. These days even kids at a very early age use ICT very confidently. ICT is increasing in importance in people's lives and it is expected that this trend will continue, to the extent that ICT literacy will become a functional requirement for people's work, social, and personal lives.

ICT includes the range of hardware devices such as personal computers, laptops, Smartphones, tablets, scanners, digital cameras and software such as multimedia programmes, image editing software, database and spreadsheet programmes. It also includes the communications equipment through which people seek and access information including the Internet, email and video conferencing.

Research and studies have proved that through ICT teaching and learning can be enhanced at Schools.



HIC's SMART Approach to Exams

We encourage all our students to use the **SMART** approach to setting goals for examinations. Goals must be:

SPECIFIC

Specific to the subject and to the examination board

MEASURABLE

Measurable in Marks/Grades

ACHIEVABLE

Achievable within the student's control and ability

RELEVANT

Relevant to the syllabus and exam

TIME-BOUND

Time-bound and target date for completion before the Exam



Term Dates 2016/2017

Autumn

Staff Inset Day 1: Monday 5th September

Day 2: Tuesday 6th September

Term Begins: Friday 9th of September 2016

Orientation: Friday 9th September – Friday 16th Sept

Half Term: Friday 21st October – Friday 28th October

Term Ends: Friday 16th December

Spring

Term Begins: Monday 9th of January 2017

Half Term: Friday 17th February – Friday 24th February

Term Ends: Wednesday 12th April

Staff Inset: Thursday 13th April

Summer

Staff Inset: Monday 24th April

Term Begins: Tuesday 25th April

Half Term: Monday 29th – Friday 2nd June

Term End: Friday 7th July 2017



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Testimonials

Archanaa E, University College London (UCL)

Learning at HIC provided me with some of the best resources available for examinations from detailed notes to exam styled questions specifically prepared by the tutors at the centre. I developed good study habits along the way which helped me perform well in the summer exams.

Ayuran S, University of Bristol

Kandiah was capable of providing this through his own teaching methods and is known for having a very engaging learning environment which was beneficial for me. My experience was in fact a very enjoyable one; Kandiah was able to teach in a very open, stress free environment, ensuring that each and every student understood the topics he was teaching before moving on. Learning at HIC is a very interactive experience which really helps to re-inforce knowledge and I could see this improvement very literally in my grades.

One thing in particular I liked about the learning here was the ability of the teacher to explain very complex ideas and concepts especially in physics and mathematics using simple analogies that are much easier to understand.

The learning environment here is relaxed, and is mainly focused on each individual student achieving their own personal goals. I would fully recommend it for anyone willing to learn and improve themselves.

JR, University of Cambridge

I chose Harrow Independent College because it tailors to the needs of each individual student, with tutors who are not only interested in their chosen subjects but who are also very skilled in teaching and aiding their students to grasp a true understanding of the subject at hand. It provides excellent support to students of all standards.

Harrow Independent College has a relaxed and friendly working environment. It felt very comfortable asking questions and this therefore allowed me to understand my subjects properly.

Harrow Independent College has given me a lot of individual care and attention which has aided me in achieving my best.

I would thoroughly recommend the college to anyone who would like to study their favourite subjects in depth. This college inspires the students to achieve not only the grades but to also be able to apply their knowledge beyond the curriculum.

Thivyaa S, University of Birmingham

I had a really good experience attending here. The teaching was so clear and catered well to any knowledge I had or may not have had. In all the subjects I took, the learning experience was very interactive and taught from the basics up to very high standards.

K Kuruparan, Kings College London - Dentistry BDS

I really liked the atmosphere that this college gave me. Everything was easy going and relaxed yet I was able to be extremely productive; it is the perfect studying environment for a student who is determined for success. The teachers are extremely friendly and classroom learning has never been boring or passive, which is brilliant.

My experience here was amazing and I honestly enjoyed it so much. It has certainly helped me a lot with regards to achieving the grades I've wanted, which has essentially allowed me to get into such an excellent university to do the degree I have always wanted to do. It was also amazing to meet new friends I am still in contact with those who I met at this college.

The college is brilliant in terms of providing the support a student essentially needs; the tutors are friendly whilst making sure they teach you at their best of their abilities.





Harrow Independent College

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