

# Sixth Form: A Levels at Haileybury Almaty



2020-2021 Curriculum  
Information Booklet

# Welcome to Haileybury Almaty Sixth Form



Deciding what to do after Fifth Form (Year 11), where you should go and what you should study is a complex and important task. Choosing the right sort of institution to suit your needs is as important as selecting the right courses.

In the Sixth Form (Year 12-13) at Haileybury Almaty, we offer a range of courses, excellent teaching and a team of highly skilled House Tutors. We are very proud of the personalised service we are able to offer all our pupils.

At Haileybury Almaty, our Sixth Form have a leadership role within the school. This helps extend their skills, that will be useful throughout life and means that our expectations for our pupils are both academically and socially high. Pupils are given more independence and freedom to organise their work, but also more responsibility, helping them in the important transition period towards university life. Pupils will be able to achieve and obtain the A Level results they need for their university choice through an academically guided programme designed to support them every step of the way.

Our outstanding Co-curricular Activities Programme continues in Sixth Form and pupils should take every opportunity to develop their passions and maybe find new ones! Every year the vast majority of Upper Sixth pupils get their first choice destination, even if that is studying at Oxbridge or Ivy League.

Life in Haileybury Almaty Sixth Form is hard-work, but also great fun. It is a period of your life when you will establish strong lifelong friendships as well as a lifelong love of learning.

**Michael Jacoby**  
Deputy Head Academic

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# Haileybury Almaty Sixth Form

The Sixth Form at Haileybury Almaty provides a stimulating and friendly environment in which pupils can continue their academic education beyond their IGCSE examinations. Advanced Level, General Certificates of Education, are the most popular qualification for entry to universities in the UK. They are accepted and valued by universities in America, Europe, Canada, and Australia and in other countries throughout the world. The vast majority of British pupils and many international school pupils enter universities around the world having completed A Levels. The qualification is understood and accepted as evidence of high academic achievement.

A Levels are studied over a two year period, with examinations either taken at the end of each year or all at the end of the course. Pupils at Haileybury Almaty typically take three or four subjects, which give them the opportunity to enter the best universities in the world. A Level grades range from A\* to E.

In international schools, those whose first language is not English also take an English Language qualification. At Haileybury Almaty pupils take the International English Language Testing System (IELTS). This qualification is accepted by major universities around the world as evidence that a pupil has a sufficient level of English to cope with university courses. All citizens of Kazakhstan will also study the Kazakh language for 10% of their lesson time.

A Levels have the advantage of being very flexible and allow you to specialise. You may take all science subjects or all arts subjects or a mixture. Choices made now will certainly narrow the range of university courses for which you can apply in two years' time; however, most doors can be kept open and your university course may differ significantly from the subjects you take at Sixth Form. A Level requirements for UK university disciplines are available through the UCAS website.

Haileybury Almaty Sixth Form has excellent teacher-pupil ratios and will guarantee you the individual support and guidance you need. Haileybury Almaty's highly qualified academic staff are vastly experienced with A Levels.

The extra-curricular programme will be an integral part of Sixth Form studies and pupils you should consider taking a full part in the life of the school. University Tutors are looking for creativity, flexibility, adaptability and resilience as well as academic ability. The Sixth Form at Haileybury Almaty strives to foster these qualities.

## The Sixth Form team

During your time at the Sixth Form you will be working closely with staff who will guide your academic and pastoral development, particularly as you apply for universities.

The Sixth Form Team encourages a broad-based application strategy and assists pupils jointly with applications to universities in every region of the world, including Europe, East Asia, Australia, Canada, and elsewhere.

### University entry requirements

In the Upper Sixth you will submit your applications to university. The school will help with this process and write references. You will write a personal statement and explain why you wish to apply for a particular course. You will also mention your achievements in your extra-curricular activities.

UK universities make offers on the basis of the application form, performance at IGCSE and AS and/or predicted A Level grades. Very popular and competitive courses will require high grades. Other universities will offer lower grades. The UCAS website gives a full range of course requirements for the UK and guidance will be given by the school.

American universities may require you to take SATs in addition to your A Levels. A Levels are particularly well viewed by North American universities and qualify pupils for credits on many North American undergraduate degree programmes. Help will be given with applications to US and Canadian institutions as required. These are usually submitted in December. Applications to universities in New Zealand and Australia are normally submitted after the A Level results – the academic year in the southern hemisphere runs from February to November.



#### **Darshak Pandya**

In addition to his role as the Deputy Head Pastoral, Darshak Pandya is the University Applications and Guidance Counsellor. Mr Pandya brings an added level of collaboration between the House team and Sixth Form together with a wealth of experience to our university applications across the world. Supported by both Mr Stockermans he oversees the pupils in their preparation for university and life beyond.



**Steve Stockermans** is the US University Admission Counselor and assists pupils as they navigate the United States application process, including essay writing, activities advisement, choosing universities and applying for financial aid.



Let Mr Pandya know early on which country and university you're thinking of applying to. You'll get all the support you need with your application regardless of the destination.

### Entry requirements into Haileybury Almaty Sixth Form

Should your academic record be good, you will be invited to apply for entry to Haileybury Almaty Sixth Form to study A Levels. Applicants may be exempt from entrance testing upon the submission of a GCSE/IGCSE certificate showing 6 or more A\*-C grades including Mathematics and English and B grades in the subjects selected for A Level.

External applicants will be asked to sit the school's entrance examinations. If you are applying from outside the school you should contact the Head of Admissions at: [m.askatova@haileyburyalmaty.kz](mailto:m.askatova@haileyburyalmaty.kz)

Internal candidates are offered a place on the basis of their GCSE mock exam results and predicted grades.

Enrolment into the Sixth Form closes one month after each course commences.

Career choice	A Level consideration	Additional information
Arts and Humanities	Dependent on specialism	
Biological Sciences	Chemistry and Biology	A third subject should be Physics, Mathematics or Geography
Business Studies/ Accountancy/ Finance	Mathematics	Economics A Level could be useful. Grade B at Mathematics IGCSE is usually a minimum requirement for Business Studies
Computer Science	Mathematics	Computer Science at A Level would be useful
Economics	Mathematics	Economics A Level would be useful
Engineering: Aeronautical Electrical Mechanical Chemical	Mathematics, Further Mathematics, Physics	Chemistry is also useful
Law	Sciences, Languages, Mathematics, English, History	
Medicine, Veterinary Science, Dentistry	Chemistry, Biology, Mathematics	Very high entry standards, usually A*AA/AAA for Medicine. Physics also valuable

## Making the right choice: advice and guidance

Haileybury Almaty will offer the following subjects at A Level but other courses may be available with sufficient demand. Speak to the Head of Sixth Form if your subjects is not on the list:

- Art & Design
- Biology
- Business Studies
- Chemistry
- Computing
- English Language OR
- English Literature
- Economics
- French
- Further Mathematics
- Geography
- History
- Mathematics
- Physics
- Politics
- Psychology
- Russian

A subject may not run with very low numbers and pupils will be asked to select an alternative.

## Advice

If you do not know which subjects to take, you should talk through the options with your parents, your House Tutor, your subject teacher, Housemaster and the Director of Studies, who will be happy to advise you. If you have a particular career in mind then it is important that you check which subjects are required, or strongly favoured, by universities offering the appropriate courses. For further information see the Director of Studies or Head of the Senior School.

**Ask yourself:** Which subjects you find interesting? Where do your strengths lie? Understand that employers are often more interested in whether you have been successful in your subjects, rather than in the subjects themselves. If you struggle with organisation and longer pieces of work then check carefully that the workload is manageable for you. If extended writing or coursework assignments are not your strength then avoid selecting subjects with large coursework components. You are most likely to do well in a subject you enjoy.

This booklet provides you with further information about the A Level courses.

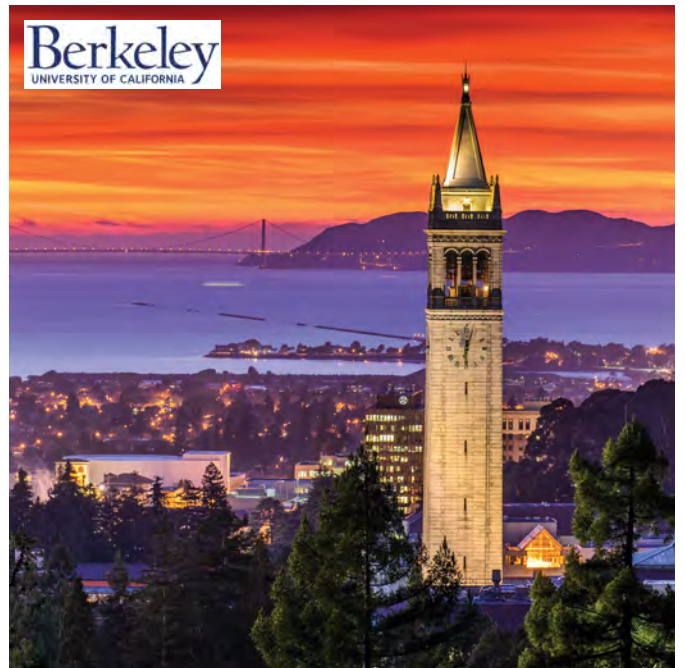
If you have any queries about the options process, please contact the Director of Studies Lucy Stainsby:

[l.stainsby@haileyburyalmaty.kz](mailto:l.stainsby@haileyburyalmaty.kz)

# Leavers' University Destinations

United Kingdom	United States	Europe	Other
Trinity College University of Cambridge	The Wharton School University of Pennsylvania	Delft University (Netherlands)	University of Toronto (Canada)
Peterhouse University of Cambridge	University of California at Berkeley	Leiden University (Netherlands)	Ontario College of Art & Design (Canada)
Balliol College University of Oxford	Parsons School of Design	Erasmus University Rotterdam (Netherlands)	Simon Fraser University (Canada)
University College London	California Institute of the Arts	NHL Stenden (Netherlands)	Capilano University (Canada)
Imperial College London	Fordham University	Karlsruhe Institute of Technology (Germany)	Dalhousie University (Canada)
Durham University	Drexel University	University of Vienna (Austria)	Hong Kong University of Science and Technology (China)
University of Manchester	The University of New Orleans	Vienna University of Technology (Austria)	Shenzhen University (China)
Loughborough University	Colorado State University	KU Leuven University (Belgium)	KAIST (South Korea)
University of Nottingham	Northeastern University	Science Political University (France)	Chonbuk National University (South Korea)
University of Leeds	Diablo Valley College San Francisco	Les Roches International School of Hotel Management (Switzerland)	American University of Dubai (UAE)
Coventry University	Millsaps College	Bocconi University (Italy)	Heriot-Watt University Dubai (UAE)
Royal Holloway University of London		Les Roches School of Management (Spain)	Nazarbayev University (Kazakhstan)
Glasgow School of Art		IE University (Spain)	KIMEP (Kazakhstan)
Central St Martins University of Arts			Kazakh-British Technical University (Kazakhstan)
University of Brighton			





# Academic English at Haileybury Almaty School

## The Language & Learning Faculty

### Our Programme

Our Academic English Programme is a key part of the Sixth Form curriculum at Haileybury Almaty. It supports pupils studying for A Level qualifications and helps them to achieve the necessary IELTS Academic score for overseas university entrance.

We expect pupils to take equal responsibility for their English language learning; seek out opportunities for practise, reflect on the quality of their English and strive to achieve an excellent level of proficiency.

### Teaching & Learning

Pupils in Year 12 attend at least 2 hours of taught academic English classes per week for which they are required to submit homework assignments. Attendance at these sessions is compulsory.

In conjunction with this, pupils also have access to two computer-aided language learning programmes which provide the option of flexible, independent learning opportunities while allowing their teacher to monitor progress and provide feedback. The Language & Learning Faculty provide further support and guidance on an individual basis.

### IELTS Academic

IELTS Academic (International English Language Testing System) is a secure academic English language test which will be used to prove that you are proficient enough to study at university abroad. Furthermore, IELTS Academic is usually required to attain a student visa in order to travel abroad for educational purposes. Most overseas universities require you to have this qualification although the scores you need can vary. We encourage our pupils to aim for a band score of 7.5; a high C1 on the Common European Framework.

### Examinations

Pupils will sit the IELTS Academic exam before the end of Year 12. The exam comprises four skills sections testing proficiency in reading, writing, speaking and listening. The listening, reading and writing sections of all IELTS tests are completed on the same day and take around 2 hours 30 minutes. The speaking test takes the form of an interview and lasts approximately 10-15 minutes. This part of the test can be done separately. Pupils make independent arrangements to take the test and most pupils sit their exams at the British Council, Almaty.

# A Level Options

# ART & DESIGN International A Level



## Prerequisites

Pupils should have studied GCSE Art and achieved a grade C or above. Since the assessment is predominantly coursework pupils should approach this course with a willingness to experiment and develop skills across a range of materials and techniques. There will also be tuition to specialise in areas such as Textiles, Ceramics, Photography or Digital Media.

## Reasons for studying Art & Design (Cambridge International)

The Cambridge International A Level Art and Design syllabus considers expression and communication. Learners gain an understanding of visual perception and the ways in which artists and designers communicate ideas.

Most of the work for this syllabus is practical, so that learners can develop their abilities of observation and analysis of the visual world, with sensitivity, skill, personal expression and imagination. They also learn how to relate their skills to an enhanced knowledge of their own cultures, past and present, as well as an appreciation of practical design problems.

## What you will be studying

You will study art from other cultures, historical contexts and local crafts, as well as gain familiarity with a broad range of fine artists that you can relate to their own studies. Candidates should also explore the use of tone, colour and composition, materials and context. Other materials including charcoal, pencil, ceramics, pastels, acrylic, watercolour, oil and ink can also be explored.

Candidates should work in one or more of the following:

- painting
- drawing
- sculpture
- photography
- print-making
- mixed media
- experimental – assemblage/construction.

## How you will learn

This syllabus aims to encourage pupils to develop:

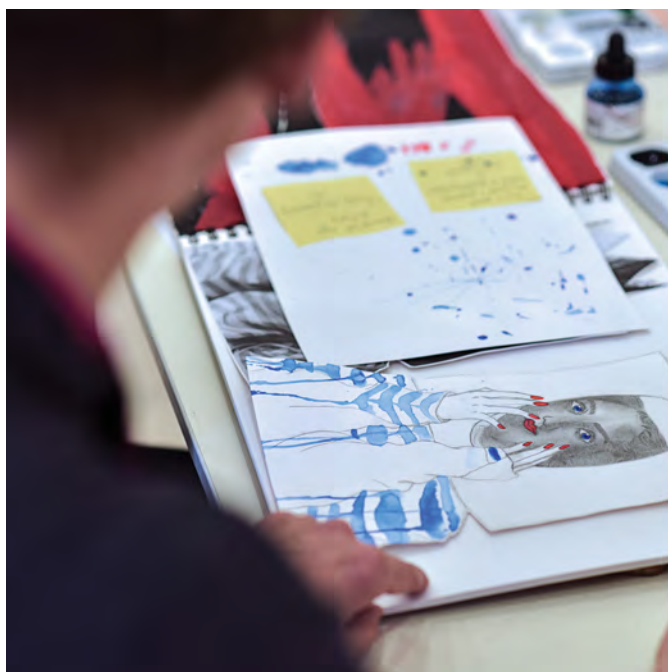
- The ability to record their own experiences and observations from first-hand and secondary resources and personal research
- The ability to collect, record and respond to visual information using a range of techniques
- The skill to select, give context to and organise the information they collect in a coherent way
- The ability to effectively use a wide range of resources and use the information to develop their practice
- The ability to make personal investigations
- The application of a range of skills to produce art and design work
- A critical awareness of their work in a contextual framework and the ability to review it based on their own, and others', opinions
- The ability to reflect, refine and adapt.



## How you will be assessed

### Assessment overview

Component 1	Component 2	Component 3
Coursework 100 marks Candidates research, develop and realise a project from one area of study in the syllabus content. There are two parts to the coursework: – a portfolio and – a final outcome. This is externally assessed and makes up 50% of the AS Level 25% of the A Level.	Personal Investigation 100 marks (weighted to 200 marks) Candidates investigate a theme, idea, concept or process that is personal to them. There are two parts to the investigation: – practical work and written analysis (1000–1500 words). The practical work and written analysis must form an integrated submission. Externally assessed- 50% of the A Level.	Externally Set Assignment 15 hours (100 marks). Candidates choose one starting point to develop into a personal response. There are two parts to the assignment: – supporting studies, created during the preparation period and – a final outcome, produced during a supervised test of 15 hours' total duration. Externally assessed 50% of the AS Level 25% of the A Level.



# BIOLOGY International A Level



## Prerequisites

Pupils will need to have IGCSE in Biology A\*-B or its equivalent.

## Reasons for studying Biology (Edexcel)

As well as a focus on biology this course also features a large section on How Science Works. The GCE Biology syllabus enables pupils to better understand the world in which they live, and take an informed interest in science, scientific developments and how science works. Pupils learn about the basic concepts in biology through a mix of theoretical and practical studies. Pupils also develop an understanding of the scientific skills essential for further study at university level but are also, useful in everyday life. As they progress, pupils learn how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment. [www.edexcel.com](http://www.edexcel.com)





## What you will be studying

AS Units (Lower Sixth)	A2 Units (Upper Sixth)
<p><i>IAS Unit 1: Lifestyle, Transport, Genes and Health (WB1o1)</i></p> <ul style="list-style-type: none"> <li>• structure and function of carbohydrates, lipids and proteins; enzyme action</li> <li>• structure and properties of cell membranes; passive and active transport</li> <li>• structure and role of DNA and RNA</li> <li>• replication; protein synthesis</li> <li>• monohybrid inheritance</li> <li>• gene mutations</li> <li>• principles of gene therapy; social and ethical issues</li> </ul>	<p><i>IA2 Unit 4: The Natural Environment and Species Survival (WB1o4)</i></p> <ul style="list-style-type: none"> <li>• photosynthesis; energy transfer within ecosystems</li> <li>• evidence for global warming</li> <li>• evolution through natural selection and speciation</li> <li>• nutrient recycling</li> <li>• DNA profiling and PCR</li> <li>• structure of bacteria and viruses</li> <li>• infectious diseases (e.g. AIDS and TB) and immunology</li> </ul>
<p><i>IAS Unit 2: Development, Plants and the Environment (WB1o2)</i></p> <ul style="list-style-type: none"> <li>• cell structure and ultrastructure of eukaryote and prokaryote cells; cell specialisation</li> <li>• the role of meiosis</li> <li>• genotype and environmental influence</li> <li>• stem cell research and its implications</li> <li>• biodiversity, adaptations and natural selection</li> <li>• principles of taxonomy</li> <li>• plant cell structure</li> <li>• transport of water in plants</li> <li>• uses of plant products</li> </ul>	<p><i>IA2 Unit 5: Energy, Exercise and Coordination (WB1o5)</i></p> <ul style="list-style-type: none"> <li>• ATP, glycolysis, anaerobic/aerobic respiration</li> <li>• control and functioning of heart; ventilation and cardiac output</li> <li>• homeostasis</li> <li>• the nervous system</li> <li>• impact of exercise on body, and improving performance</li> <li>• hormonal coordination</li> <li>• brain structure and development</li> <li>• imbalances in brain chemicals</li> <li>• Human Genome Project</li> </ul>
<p><i>IAS Unit 3: Practical Biology and Research Skills (WB1o3)</i></p> <p>You are expected to develop experimental skills, and a knowledge and understanding of experimental techniques, by carrying out a range of practical experiments and investigations while you study Units 1 and 2.</p> <p>This unit will assess your knowledge and understanding of experimental procedures and techniques that are developed throughout Units 1 and 2.</p>	<p><i>IA2 Unit 6: Practical Biology and Investigative Skills (WB1o6)</i></p> <p>You are expected to develop a wide knowledge and understanding of experimental procedures and techniques throughout the whole of your International Advanced Level course. You are expected to become aware of how these techniques might be used to investigate interesting biological questions.</p> <p>This unit will assess your knowledge and understanding of experimental procedures and techniques and your ability to plan whole investigations, analyse data and to evaluate your results and experimental methodology.</p>

## How you will be assessed

AS Units – Three exams are taken at the end of Lower Sixth	A2 Units – Three exams are taken at the end of Upper Sixth
<p><i>IAS Unit 1: Lifestyle, Transport, Genes and Health (WB1o1)</i></p> <ul style="list-style-type: none"> <li>Written examination of 1 hour and 30 minutes, consisting of objective, structured and short-answer questions (40% of AS grade, 20% of IAL grade)</li> </ul>	<p><i>IA2 Unit 4: The Natural Environment and Species Survival (WB1o4)</i></p> <ul style="list-style-type: none"> <li>Written examination of 1 hour and 30 minutes, consisting of objective, structured and short-answer questions. (20% of IAL grade)</li> </ul>
<p><i>IAS Unit 2: Development, Plants and the Environment (WB1o2)</i></p> <ul style="list-style-type: none"> <li>Written examination of 1 hour and 30 minutes, consisting of objective, structured and short-answer questions (40% of AS grade, 20% of IAL grade)</li> </ul>	<p><i>IA2 Unit 5: Energy, Exercise and Coordination (WB1o5)</i></p> <ul style="list-style-type: none"> <li>Written examination of 1 hour and 45 minutes, consisting of objective, structured and short-answer questions. (20% of IAL grade)</li> </ul>
<p><i>IAS Unit 3: Practical Biology and Research Skills (WB1o3)</i></p> <ul style="list-style-type: none"> <li>Written examination of 1 hour and 30 minutes, consisting of objective, structured and short-answer questions (20% of AS grade, 10% of IAL grade)</li> </ul>	<p><i>IA2 Unit 6: Practical Biology and Investigative Skills (WB1o6)</i></p> <ul style="list-style-type: none"> <li>Written examination of 1 hour and 30 minutes, consisting of objective, structured and short-answer questions. (10% of IAL grade)</li> </ul>

# BUSINESS STUDIES International A Level



## Prerequisites

Pupils will have gained five C grades, including English language to qualify for the course as well as meeting the School's requirement to enter the Sixth Form. It would also be an advantage to have a pass grade in GCSE Business Studies.

## Reasons for studying Business Studies (Edexcel X/YBSO<sub>1</sub>)

Advanced level International Business Studies course aims to encourage pupils to: develop an interest in and enthusiasm for the study of business; gain a holistic understanding of business; develop a critical understanding of organisations and their ability to meet society's needs and wants; understand that business behaviour can be studied from a range of perspectives; generate enterprising and creative solutions to business problems and issues; acquire a range of relevant business and generic skills, including decision making, problem solving, and challenging assumptions.

## What you will be studying

Haileybury Almaty pupils will study the latest International Business Studies course from Edexcel:

### AS Unit 1: Business Enterprise

Pupils will learn about introduction to business practice, the importance of the market and how businesses interact with customers and competitors. They will learn about the role of the entrepreneur, market research techniques, the

importance and use of finance, break-even analysis and how to measure and analyse business performance. They will also consider how the wider economic environment and stakeholders may affect businesses, large and small.

### AS Unit 2: Business Structures and Processes

Pupils will learn about the key functional areas of a business. They will develop their understanding of how businesses relate to their customers and analyse change in their markets and how businesses manage their people effectively. They will understand business operations and develop their understanding of finance and why businesses may fail.



### A2 Unit 3: Strategic Business Decisions

Pupils will examine the competitiveness of businesses through performance and non-performance indicators. They will analyse corporate objectives and strategy on the basis of these indicators and on external influences to businesses. They will assess the causes and effects of change on businesses, and examine how companies can manage risk and grow effectively.

### A2 Unit 4: Business in a Global Context

Pupils will focus on the world of international business, and consider change and growth in global economies. They will examine the different factors businesses have to consider when operating in a global market and they will also assess the impact of multinational corporations on the global economy.

### How you will learn

This Edexcel International Advanced Level Business Studies programme requires pupils to: Demonstrate knowledge and understanding of the specified content; apply knowledge and understanding of the specified content to problems and issues arising from both familiar and unfamiliar situations; analyse economic problems and issues; evaluate business arguments and evidence, making informed judgements; organise information clearly and coherently, using specialist vocabulary; and use an enquiring, critical and thoughtful approach to the study of Business.

### How you will be assessed

Unit 1: AS	Unit 2: AS	Unit 3: A2	Unit 3: A2
Examination of 80 marks; duration 1 hour 30 mins; 25% of A Level grade.  Examination is in two sections and consists of multiple choice questions and data response questions.  1 hour 30 mins	Examination of 80 marks; duration 1 hour 30 mins; 25% of A Level grade.  Examination is in two sections and consists of multiple choice questions and data response questions.	Examination of 80 marks; duration 2 hours; 25% of A Level grade.  Examination is in two sections and consists of data response questions and questions based on case studies.	Examination of 80 marks; duration 2 hours; 25% of A Level grade. Examination is in two sections and consists of data response questions and questions based on case studies.

# CHEMISTRY International A Level



## Prerequisites

Pupils will need to have IGCSE in Chemistry A\*- B or its equivalent.

## Reasons for studying Chemistry (Edexcel)

As well as a focus on chemistry this course also features a large section on How Science Works. The IAL Chemistry syllabus enables pupils to better understand the world in which they live, and take an informed interest in science, scientific developments and how science works. Pupils learn about the basic concepts in chemistry through a mix of theoretical and practical studies. Pupils also develop an understanding of the scientific skills essential for further study at university level but are also, useful in everyday life.



## What you will be studying

AS Units (Lower Sixth)	A2 Units (Upper Sixth)
<p><i>IAS Unit 1: The Core Principles of Chemistry (WCH01)</i></p> <ul style="list-style-type: none"> <li>• Formulae writing, equation writing and calculating chemical quantities</li> <li>• Energetics and enthalpy change</li> <li>• Atomic structure and the Periodic table.</li> <li>• Chemical bonding (ionic, covalent and metallic)</li> <li>• Organic chemistry – alkanes and alkenes</li> </ul>	<p><i>IA2 Unit 4: General Principles of Chemistry I – Rates, Equilibria and Further Organic Chemistry (WCH04)</i></p> <ul style="list-style-type: none"> <li>• Quantitative study of chemical kinetics</li> <li>• Entropy</li> <li>• Quantitative study of equilibria</li> <li>• Acid/base equilibria</li> <li>• Further organic chemistry including carbonyl compounds, carboxylic acids and their derivatives</li> <li>• NMR spectroscopy and chromatography</li> </ul>
<p><i>IAS Unit 2: Application of Core Principles of Chemistry (WCH02)</i></p> <ul style="list-style-type: none"> <li>• Shapes of molecules and ions</li> <li>• Intermediate bonding and bond polarity</li> <li>• Intermolecular forces</li> <li>• Redox reactions</li> <li>• The periodic table – groups 2 and 7</li> <li>• Kinetics</li> <li>• Chemical equilibria</li> <li>• Organic chemistry – alcohols and halogen alkanes (including mechanisms)</li> <li>• Mass spectra and IR spectroscopy</li> <li>• Green chemistry</li> </ul>	<p><i>IA2 Unit 5: General Principles of Chemistry II – Transition Metals and Organic Nitrogen Chemistry (WCH05)</i></p> <ul style="list-style-type: none"> <li>• Application of redox chemistry</li> <li>• Transition metals and their chemistry</li> <li>• Further organic chemistry including arenes and organic nitrogen compounds</li> <li>• Organic synthesis</li> </ul>
<p><i>IAS Unit 3: Chemistry Laboratory Skills I Alternative (WCH03)</i></p> <ul style="list-style-type: none"> <li>• This unit contains a practical written examination that covers the content of Units 1 and 2. There is no specific content for this unit. The practical written examination covers the areas of physical, organic and inorganic chemistry on qualitative observations, quantitative measurements and preparations.</li> </ul>	<p><i>IA2 Unit 6: Chemistry Laboratory Skills II Alternative (WCH06)</i></p> <p>This unit contains a practical written examination that covers the content of Units 4 and 5. There is no specific content for this unit. The practical written examination covers the areas of physical, organic and inorganic chemistry on qualitative observations, quantitative measurements and preparations.</p>



## How you will be assessed

AS Units – Three exams are taken at the end of Lower Sixth	A2 Units – Three exams are taken at the end of Upper Sixth
<p><i>IAS Unit 1: The Core Principles of Chemistry (WCHo1)</i></p> <ul style="list-style-type: none"> <li>• Examination of 1 hour 30 minutes in two sections:</li> <li>• Section A: objective test questions</li> <li>• Section B: mixture of short-answer and extended answer question</li> <li>• (40% of AS grade, 20% of IAL grade)</li> </ul>	<p><i>IA2 Unit 4: General Principles of Chemistry I – Rates, Equilibria and Further Organic Chemistry (WCHo4)</i></p> <ul style="list-style-type: none"> <li>• Examination of 1 hour 40 minutes in three sections:</li> <li>• Section A: objective test questions</li> <li>• Section B: mixture of short-answer and extended answer questions</li> <li>• Section C: data questions, with use of a data booklet</li> <li>• (20% of IAL grade)</li> </ul>
<p><i>IAS Unit 2: Application of Core Principles of Chemistry (WCHo2)</i></p> <ul style="list-style-type: none"> <li>• Examination of 1 hour 30 minutes in three sections:</li> <li>• Section A: objective test questions</li> <li>• Section B: mixture of short-answer and extended answer questions</li> <li>• Section C: contemporary context questions</li> <li>• (40% of AS grade, 20% of IAL grade)</li> </ul>	<p><i>IA2 Unit 5: General Principles of Chemistry II – Transition Metals and Organic Nitrogen Chemistry (WCHo5)</i></p> <ul style="list-style-type: none"> <li>• Examination of 1 hour 40 minutes in three sections:</li> <li>• Section A: objective test questions</li> <li>• Section B: mixture of short-answer and extended answer questions</li> <li>• Section C: contemporary context questions</li> <li>• (20% of IAL grade)</li> </ul>
<p><i>IAS Unit 3: Chemistry Laboratory Skills I Alternative (WCHo3)</i></p> <ul style="list-style-type: none"> <li>• Examination of 1 hour 15 minutes with one section (20% of AS grade, 10% of IAL grade)</li> </ul>	<p><i>IA2 Unit 6: Chemistry Laboratory Skills II Alternative (WCHo6)</i></p> <ul style="list-style-type: none"> <li>• Examination of 1 hour 15 minutes with one section (10% of IAL grade)</li> </ul>

The results from the AS and A2 exams combine to give an IAL overall grade (the weighting is 50:50) grades are A\* to E.

# COMPUTER SCIENCE International A Level



## Prerequisites

Pupils should have acquired the skills and knowledge associated with a GCSE/ IGCSE Computer Science course or equivalent.

## Reasons for studying Computer Science (Cambridge International)

Learners will study topics including information representation, communication and Internet technologies, hardware, software development, and relational database modelling. As they progress, learners will develop their computational thinking and use problem solving to develop

computer-based solutions using algorithms and programming languages. <http://www.cie.org.uk>

## How you will learn

This syllabus aims to encourage the development of computational thinking, that is thinking about what can be computed and how by the use of abstraction and decomposition. It includes consideration of the data required. Learning computational thinking involves learning to program, by writing computer code, because this is the means by which computational thinking is expressed.

## What you will be studying

AS Level		A2 Units (Upper Sixth)	
<b>1. Theory Fundamentals</b> <ul style="list-style-type: none"><li>Information representation</li><li>Communication and Internet technologies</li><li>Hardware</li><li>Processor fundamentals</li><li>System software</li><li>Security, privacy and data integrity</li><li>Ethics and ownership</li><li>Database and data modelling</li></ul>	<b>2. Fundamental Problem-solving and Programming</b> <ul style="list-style-type: none"><li>Algorithm design and problem-solving</li><li>Data representation</li><li>Programming</li><li>Software development</li></ul>	<b>3. Advanced Theory</b> <ul style="list-style-type: none"><li>Data representation</li><li>Communication and Internet technologies</li><li>Hardware</li><li>System software</li><li>Security</li><li>Monitoring and control systems</li></ul>	<b>4. Further Problem-solving and Programming Skills</b> <ul style="list-style-type: none"><li>Computational thinking and problem-solving</li><li>Algorithm design methods</li><li>Further programming</li><li>Software development</li></ul>

## How you will be assessed

AS Level		A2 Units (Upper Sixth)	
<p><b>1. Theory Fundamentals</b></p> <ul style="list-style-type: none"> <li>This written paper contains short-answer and structured questions. There is no choice of questions.</li> <li>75 marks.</li> <li>Externally assessed 1 hour 30 minutes.</li> </ul>	<p><b>2. Fundamental Problem-solving and Programming</b></p> <ul style="list-style-type: none"> <li>This written paper contains short-answer and structured questions. There is no choice of questions. Topics will include those given in the pre-release material.</li> <li>75 marks.</li> <li>Externally assessed 2 hours.</li> </ul>	<p><b>3. Advanced Theory</b></p> <ul style="list-style-type: none"> <li>This written paper contains short-answer and structured questions. There is no choice of questions.</li> <li>75 marks.</li> <li>Externally assessed 1 hour 30 minutes.</li> </ul>	<p><b>4. Further Problem-solving and Programming Skills</b></p> <ul style="list-style-type: none"> <li>This written paper contains short-answer and structured questions. There is no choice of questions. Topics will include those given in the pre-release material.</li> <li>75 marks.</li> <li>Externally assessed 2 hours</li> </ul> <p>Advanced Subsidiary (AS) forms 50% of the assessment weighting of the full Advanced (A) Level.</p>





# ECONOMICS International A Level



## Prerequisites

Pupils will have gained five C grades, including English language to qualify for the course as well as meeting the School's requirement to enter the Sixth Form. It would also be an advantage to have grade B or higher in iGCSE Economics.

## Reasons for studying ECONOMICS (Edexcel)

The Advanced GCE course in Economics aims to provide understanding of: macroeconomic and microeconomic theories and concepts at both AS and A2; basic microeconomic models and application of these to current problems and issues; and the contribution of economics to the understanding of the wider economic and social environment. [www.qualifications.pearson.com](http://www.qualifications.pearson.com)

## What you will be studying

Haileybury Almaty pupils will study the latest Economics course from Edexcel:

AS Units (Lower Sixth)	A2 Units (Upper Sixth)
<p><i>AS Unit 1 (WEC11): Markets in action</i></p> <ul style="list-style-type: none"> <li>• The nature of economics</li> <li>• Demand and consumer behaviour</li> <li>• Supply</li> <li>• Price determination</li> <li>• Market failure</li> <li>• Government intervention in markets</li> </ul>	<p><i>A2 Unit 3 (WEC13): Business behaviour</i></p> <ul style="list-style-type: none"> <li>• The Firm &amp; its objectives</li> <li>• Revenue costs &amp; profit</li> <li>• Market structure &amp; contestability</li> <li>• Labour market</li> <li>• Government intervention to promote competition</li> </ul>
<p><i>AS Unit 2 (WEC12): Macroeconomic performance &amp; policy</i></p> <ul style="list-style-type: none"> <li>• Measures of economic performance                             <ul style="list-style-type: none"> <li>• The circular flow of income</li> </ul> </li> <li>• Aggregate demand</li> <li>• Aggregate supply</li> <li>• The interaction of AD &amp; AS to determine equilibrium</li> <li>• Economic growth</li> <li>• Macroeconomic objectives &amp; policies</li> </ul>	<p><i>A2 Unit 4 (WEC14): Developments in the global economy</i></p> <ul style="list-style-type: none"> <li>• Causes &amp; effects of globalisation</li> <li>• Trade &amp; the world economy</li> <li>• Balance of payments &amp; exchange rates</li> <li>• Poverty &amp; inequality</li> <li>• The role of the state in the macroeconomy</li> <li>• Measures to promote growth and development</li> </ul>

# ENGLISH LANGUAGE International A Level



## Prerequisites

Pupils should have IGCSEs in English as a First Language / Literature OR Second Language at grade A\*- C to qualify for the course, as well as meeting the school's requirements to enter the Sixth Form.

## Why study English Language? (Cambridge International)

Do you love reading and writing? Do you get swept away by the beauty of a story, or spend time thinking about the power of a single word? No? Okay, then – do you dream of a career as a Journalist, Lawyer, Interpreter, Software Programmer or Counsellor? What about a life in the arts: perhaps becoming a media mogul? Could you make a great contribution in the film and drama world? Do you see yourself as an executive in Advertising, Management or Public Relations? Perhaps an Accountant, Teacher, Head Master? What about life as an Ambassador, Politician or Chief Executive Officer?

A degree in English can get you there – and the AS/A Level English Exam will give you an excellent foundation for a wide-range of University Programmes of study! Please check with your favourite universities to see what their English requirements are for YOUR areas of interest!

## What will you study?

Cambridge International AS/A Level English Language course covers a rich and diverse set of English Language domains, providing opportunities for candidates to read,

write, explore how language develops in individuals and cultures and learn about how language is used in spoken and written forms. Pupils will read from a wide range of texts and learn to make critical and informed responses to them. Candidates will also produce their own imaginative writing, and will demonstrate their ability to produce writing for given audiences. Those who move onto the second half of the course, the Cambridge International A Level, will develop a strong foundation in the study of linguistics, focusing on spoken language, English as a global language and language acquisition.

The AS and A Level Course covers a 2-year period, with the AS Level Exam taken at the end of the first year and the A Level Exam at the end of the second year.

## How will you learn?

Successful English Language pupils develop an understanding and enjoyment of a wide variety of different texts, both written and spoken. They gain pleasure and awareness of how language works in different ways, for different purposes and for different audiences. In addition, they gain skills for life, including:

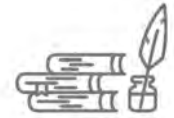
- the ability to appreciate how different texts are shaped by their language and style
- skills in creating their own imaginative and persuasive writing for different purposes and audiences
- skills in researching, selecting and shaping information from different sources
- the ability to analyse and compare written and spoken texts in close detail.



## How you will be assessed

For Cambridge International AS Level English Language		For Cambridge International A Level English Language	
<p><i>Paper 1 – Passages</i></p> <p>Candidates will answer 2 questions (1 required, one pupil choice), based on a passage printed in the exam.</p> <p>Each of the questions requires pupils to comment on the use of language within the passage and to write a response to the question using the style, tone and vocabulary in the exam passage.</p>	<p><i>Paper 2 – Writing</i></p> <p>Candidates will answer 2 questions (3 options for each question: pupils select one).</p> <p>Question 1 is a narrative or descriptive piece of writing of 600-900 words. Candidates are required to show that they can write imaginatively, using language to create deliberate effects.</p> <p>Question 2 is an argumentative or discursive piece, for a specified audience. Candidates are required to show that they can present a view clearly, construct an argument carefully, and write coherently and persuasively.</p>	<p><i>Paper 3 – Text Analysis</i></p> <p>Candidates will answer 2 questions.</p> <p>Question one has two parts: part 1 is writing for a specific audience using appropriate tone, voice and vocabulary, followed by a comparison of the candidate's work and the original text.</p> <p>Question 2 requires candidates to compare the style and language of two texts.</p>	<p><i>Paper 4 – Language Topics</i></p> <p>This paper consists of three questions, each on a separate topic area. The areas of study may change from year to year, but each question will have a short stimulus (such as a relevant text extract or speech transcription) relating to the topic area and candidates will be expected to refer to this and to their own wider reading and research in answering.</p> <p>The topic areas for examination in 2016 are:</p> <ul style="list-style-type: none"> <li>• Topic A: Spoken language and social groups</li> <li>• Topic B: English as a global language</li> <li>• Topic C: Language acquisition by children and teenagers.</li> </ul>

# ENGLISH LITERATURE International A Level



## Why study literature?

The study of poetry, plays, and novels is the study of life itself – as seen by the men and women who have expressed themselves in writing over the centuries. Literature allows us to explore different times, places, and experiences without ever leaving our favourite comfy chair. Studying literature in English will greatly increase your ability to think, to discuss, to develop your ideas and sharpen them in debate, and to express them clearly in words of your own. All of these skills are vital in a rapidly developing world where what you know is less important than your ability to think, create and imagine.

Studying literature in English also gives an insight into the cultures of the English-speaking world – including Britain and Ireland, North America, Australasia, much of Africa, the Indian subcontinent, and beyond. If you are interested in travelling, or studying and working abroad, literary study is a great way to prepare yourself by broadening your horizons. Literary study is ideal preparation for careers as varied as journalism, diplomacy, advertising, education, politics and business, as the AS/A Level English Literature qualification provides an excellent foundation for a wide range of university degrees. Reading widely is the heart of a great education, and reading the greatest works by the finest writers will equip you not only for university but for the life of your choice.

## The Course

This qualification is modular. The full International A-level is intended to be taken over two years. The specification content for the International AS is half that of an International A-level. The International AS can be taken as a stand-alone qualification or can be used to count towards the International A-level. Students can take the International AS in the first year and then take the International A2 in the second year to complete the International A-level.

### UNIT 1: Aspects of Dramatic Tragedy

In Aspects of dramatic tragedy, the texts are connected through the mainstream literary genres of drama and tragedy. Pupils will study two drama texts. This is a closed book examination.

### UNIT 2: Place in Literary Texts

In Place in literary texts, the texts are linked through the cultural genre of place. Pupils study one prose text and one poetry text. This is an open book examination.

### UNIT 3: Elements of Crime and Mystery

In Elements of crime and mystery the texts are connected through a cultural genre. In all these texts a significant crime drives the narrative and the execution and consequences of the crime are fundamentally important to the way the text is structured. This is a closed book examination.



## UNIT 4: Literary Representations

There are two options here, one of which must be chosen, either an examination paper using unseen texts or a non-exam assessment submission, teacher assessed and externally moderated.

### Prerequisites

Pupils should have IGCSEs in English First Language and/or in English Literature at grade A\*- C to qualify for the course, as well as meeting the school's requirements to enter the Sixth Form.

# FRENCH International A Level



## Prerequisites

Pupils will have gained IGCSE French grade A\*- B to qualify for the course as well as meeting the school's requirement to enter the sixth form.

## Reasons for studying French Edexcel

- To enhance the pupil's linguistic skills and promote and develop their capacity for critical thinking.
- To enable pupils to communicate confidently and clearly in the target language.
- To enable pupils to develop knowledge about matters central to the society and culture, past and present, of the country or countries where French is spoken, including the study of literary texts and films.
- To form a sound base of skills, language and attitudes required for further study, work and leisure.

## What you will be studying

A Level is about 'The Wider Society'. You will learn not just to speak or write about various subjects, but more importantly, to express an opinion about them. There are four compulsory themes which address a range of social issues and trends, as well as aspects of the political and artistic culture of France and French-speaking countries:

- *Theme 1* - Changes in French society (family, education and world of work)
- *Theme 2* - The political and artistic culture of a French-speaking country

- *Theme 3* - Immigration and France as a multicultural society
- *Theme 4* - France during World War Two.

There is an independent research project assessed within the speaking exam.

You will study a film and one literary text (a play or a novel).

Your control of grammar will grow over the 2 years and you will no longer be moving parts of grids around but using the language you want to use in order to say what you want to say.

## How you will learn

Pupils will acquire knowledge, skills and understanding of features of the French language, society, culture and history through reading articles and novels, watching videos and films, discussion and group work, delivering presentations and by using a range of different resources. French uses a variety of teaching styles and media.

## How you will be assessed

### Paper 1: Listening, Reading and Translation (2 hours) (40% of the qualification)

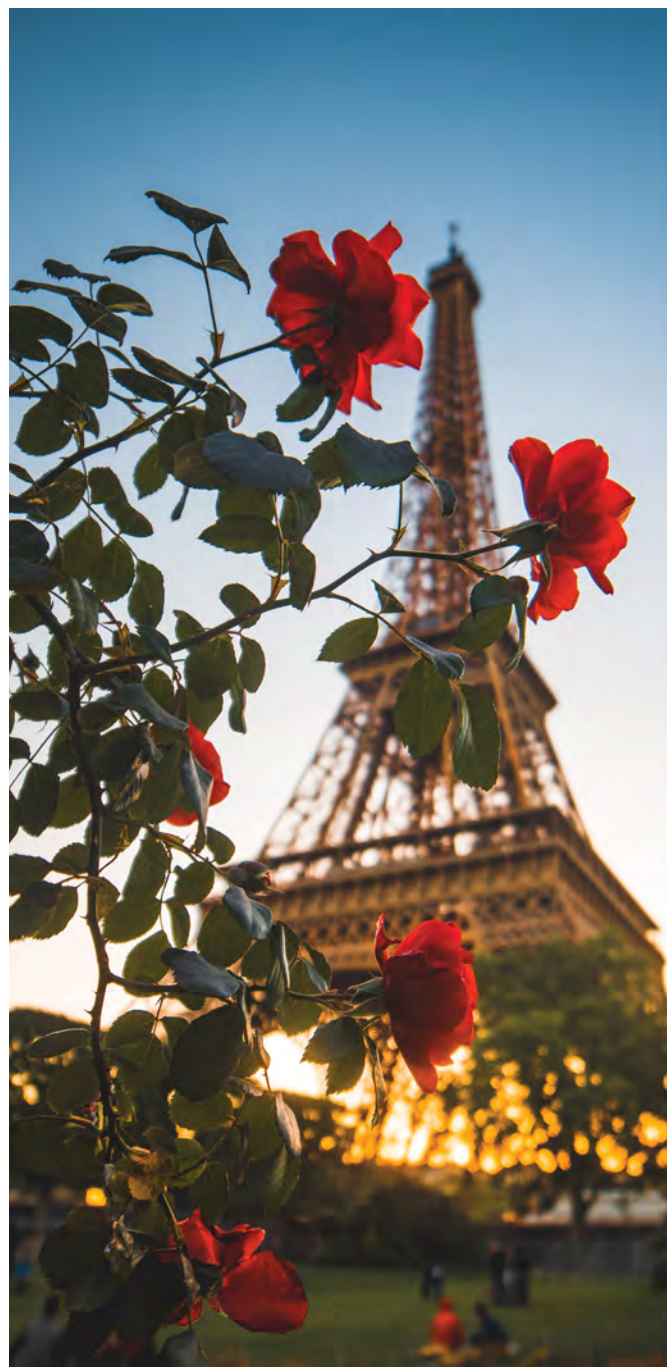
- The texts and the audio resources will be on any of the four themes mentioned above.

### Paper 2: Written response to works and Translation (2 hours and 40 minutes) (30% of the qualification)

- *Section A*: Translation from English into French
- *Section B*: Written response to works (literary texts): pupils must write an extended response on the literary text studied. They have a choice of two questions.
- *Section C*: Written response to works (films): pupils must write an extended response on the film studied. They have a choice of two questions.

### Paper 3: Speaking (23 minutes) (30% of the qualification)

- *Task 1*: Discussion on a theme: pupils discuss one theme (out of the four studied) based on a stimulus containing two different statements
- *Task 2* is based on independent research selected and carried out by the pupil. It may be based on one of the themes studied or on the pupils' own subject of interest related to the society and culture of French.





# FURTHER MATHEMATICS International A Level



## Prerequisites

At least five IGCSEs at grades A\* to C, including Mathematics at grade A\* will be required.

## Co-requisite

This syllabus is intended for high ability learners who have achieved, or are likely to achieve, a high grade in the Edexcel A Level Mathematics examination.

## Reasons for studying Further Mathematics (Edexcel YFM01)

The Edexcel A Level Further Mathematics syllabus enables learners to extend the mathematical skills, knowledge and understanding developed in the Edexcel A Level Mathematics course. The content of the syllabus covers the areas of Core Mathematics, Mechanics and Statistics. Knowledge of the whole content of the Edexcel A Level Mathematics syllabus is assumed.

## What you will be studying

The curriculum consists of two main branches: Pure Mathematics and Applied Mathematics.

### Pure Mathematics

Knowledge and application of the Edexcel YMA01 syllabus is assumed, and the Core Mathematics units continue to develop this knowledge. Specific topics include: Polynomials and rational functions, Polar co-ordinates, Summation of series, Mathematical Induction, Differentiation and Integration, Differential equations, Complex numbers, Vectors, Matrices and Linear spaces.

### Applied Mathematics

Knowledge of the syllabuses for Mechanics (unit M1) and Probability and Statistics (unit S1) in Mathematics YMA01 is assumed. Candidates may need to apply such knowledge in answering questions; harder questions on those units may also be set.

Specific topics include: Momentum and impulse, Circular motion, Rotation of a rigid body, Simple harmonic motion, Probability distributions: geometric, Poisson, negative exponential; Inference using normal and t-distributions,  $\chi^2$ -tests and Bivariate data.

*Shyngys (Leaver 2019) has received an offer from Peterhouse, Cambridge to read Mathematics.*





## How you will be assessed

In Lower Sixth, pupils who have chosen Further Mathematics will complete the full Mathematics A Level. They only begin the study of Further Mathematics in Upper Sixth. They will study three Pure Mathematics modules: FP1,

FP2 and FP3. They will also select three applied modules from a choice of Statistics 1, 2 and 3, Mechanics 1, 2 and 3, and Decision 1. They will have already studied two of these for their A Level and must choose three different modules for Further Mathematics.

16.7% of A2 marks	Further Pure 1	FP1	1 hour 30 minutes
16.7% of A2 marks	Further Pure 2	FP2	1 hour 30 minutes
16.7% of A2 marks	Further Pure 3	FP3	1 hour 30 minutes
16.7% of A2 marks	Option 1		1 hour 30 minutes
16.7% of A2 marks	Option 2		1 hour 30 minutes
16.7% of A2 marks	Option 3		1 hour 30 minutes

*Haileybury Almaty Pupils Nurtas (Y12) won the gold medal in mathematics and Shyngys (Y13) won the bronze medal in mathematics in the 15th International Zhautykov Olympiad in Mathematics.*



# GEOGRAPHY International A Level



## Prerequisites

Pupils will have gained IGCSE Geography grade A\*-B to qualify for the course as well as meeting the school's requirement to enter the Sixth Form.

## Reasons for studying Geography (CIE)

The course follows on from the IGCSE allowing for specialisation in geographical study as well as the further development of fieldwork skills. It also enables pupils to progress to higher education and employment. The understanding and skills developed through studying geography give each pupil the necessary tools to understand

current global issues at a variety of scales and enable them to plan and respond appropriately to the challenges posed.

## What you will be studying

Our pupils will study the Cambridge International A Level Geography course. See table below for details.

Compulsory Units	Advanced Units (2 units from each section)
<p>Core Physical Geography</p> <ul style="list-style-type: none"><li>• Hydrology and fluvial geomorphology</li><li>• Atmosphere and weather</li><li>• Rocks and weathering</li></ul>	<p>Advanced Physical Geography Options</p> <ul style="list-style-type: none"><li>• Tropical environments</li><li>• Coastal environments</li><li>• Hazardous environments</li><li>• Hot arid and semi-arid environments</li></ul>
<p>Core Human Geography</p> <ul style="list-style-type: none"><li>• Population</li><li>• Migration</li><li>• Settlement dynamics</li></ul>	<p>Advanced Human Geography Options</p> <ul style="list-style-type: none"><li>• Production, location and change</li><li>• Environmental management</li><li>• Global interdependence</li><li>• Economic transition</li></ul>

## How you will learn

Pupils will acquire knowledge, understanding and a range of skills through fieldwork, using GIS software (mapping, using ICT, graphical and presentational work. Pupils will also have the opportunity for group work, debates and discussions. We use a variety of teaching styles to engage and support the learning styles of all our pupils.

## How you will be assessed

Advanced Level Geography is a 2 year course whereby our pupils will sit an AS Geography exam in Lower Sixth which accounts for half of the A Level and then they will sit a final A Level exam to complete the qualification in Upper Sixth.

- **Paper 1:** Core Physical Geography = 50% of AS Level (25% of overall A Level)
- **Paper 2:** Core Human Geography = 50% of AS Level (25% of overall A Level)
- **Paper 3:** Advanced Physical Geography = 25% of overall A Level
- **Paper 4:** Advanced Human Geography = 25% of overall A Level



# HISTORY International A Level

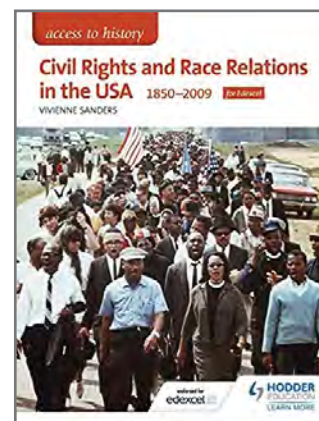
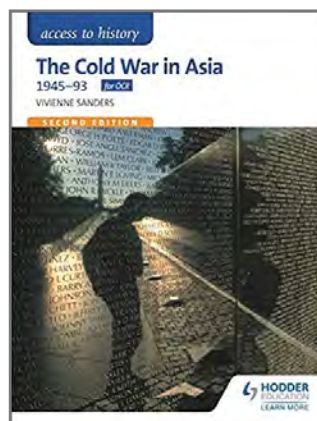
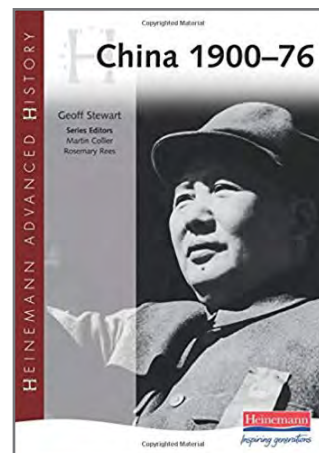


## Prerequisites

Pupils who do well in IGCSE would find the course a natural follow on to their previous studies, however other pupils who wish to be presented with an academic challenge around fascinating subject matter would also thrive. The course uses up to date assessment methods which have proved popular with pupils and universities. The emphasis is on the ability to produce historical reasoning.

## Reasons for studying History (Edexcel)

The course follows on from IGCSE allowing for specialisation in historical study, investigation of new thematic material and developing further analytical skills. GCE History enables pupils to progress to higher education and employment, proving key skills recognised in business, law, journalism, crime scene investigation etc. The understanding and skills developed through studying History gives pupils the necessary tools to understand analyse evidence, cohesively present large amounts of information and investigate key world events and current affairs.



## What you will be studying and how you will be assessed

Unit Title	Level	Assessment Information
Unit 1: Depth Study with Interpretations Option 1C: Germany, 1918–1945	IAS	2 hour examination Two essays from a choice of four
Unit 2: Breadth Study with Source Evaluation Option 1B: China, 1900–1976	IAS	2 hour examination Section A: Pupils must answer a 2 part question Section B: Pupils must answer one 25 mark essay question from a choice of three
Unit 3: Thematic Study with Source Evaluation Option 1D: Civil Rights and Race Relations in the USA, 1865–2009	IAL	2 hour examination Section A: Pupils must answer a 25 mark essay question Section B: Pupils must answer a 25 mark essay question from a choice of two
Unit 4: International Study with Historical Interpretations Option 1D: The Cold War and Hot War in Asia, 1945–1990	IAL	2 hour examination Section A: Pupils must answer a 25 mark essay question Section B: Pupils must answer a 25 mark essay question from a choice of two

## How you will learn

Pupils will acquire knowledge, understanding and a range of skills through analysis, case study investigation, using ICT, presentational work, discussion and group work using a number of different resources. History uses a variety of teaching styles and interactive lessons to access all pupils' learning styles.



# MATHEMATICS International A Level



## Prerequisites

At least five IGCSEs at grades A\*- C, including Mathematics at grade B or above will be required.

## Reasons for studying Mathematics (Edexcel YMAo1)

Edexcel AS and A Level Mathematics is accepted by universities and employers as proof of mathematical knowledge and understanding. Successful candidates gain lifelong skills, including:

- a deeper understanding of mathematical principles;
- the further development of mathematical skills including the use of applications of mathematics in the context of everyday situations and in other subjects that they may be studying;
- the ability to analyse problems logically, recognising when and how a situation may be represented mathematically;
- the use of mathematics as a means of communication;
- a solid foundation for further study.

## What you will be studying

In Lower Sixth, pupils will study two core modules, P1 and P2. They will also study for a Statistics module, S1. In Upper Sixth, pupils will study two further core modules, P3 and P4. They will also study another module, typically a Mechanics module, M1.

Knowledge and application of the Edexcel IGCSE (4MA1) syllabus is assumed, and the Core Mathematics units

continue to develop this knowledge. Specific topics include: Quadratics, Functions, Coordinate Geometry, Circular Measure, Trigonometry, Vectors, Series and the Binomial Theorem, Calculus: Differentiation and Integration.

## How you will learn

The course aims to encourage you to deepen your understanding of mathematics and its relevance to other fields of study in a way that promotes confidence and fosters enjoyment. You will develop an understanding of coherence and progression in mathematics, while improving your abilities to reason logically. You will extend your range of mathematical skills and techniques, improving your ability to apply and use these skills to solve more difficult unstructured problems. You will appreciate how 'real world' problems may be represented mathematically by learning to use mathematics as an effective means of communication. Above all, you will be expected to take increasing responsibility for your own learning and the evaluation of your own mathematical development.



## How you will be assessed

In Lower Sixth, all pupils sit three examinations: Pure 1, Pure 2 and Statistics 1.

- 16.7% of A2 marks Pure 1                      1 hour 30 min
- 16.7% of A2 marks Pure 2                      1 hour 30 min
- 16.7% of A2 marks Statistics 1                1 hour 30 min

In Upper Sixth, pupils sit three further examinations following the same structure.

- 16.7% of A2 marks Pure 3                      1 hour 30 min
- 16.7% of A2 marks Pure 4                      1 hour 30 min
- 16.7% of A2 marks Mechanics 1              1 hour 30 min

*2019 Math Olympiad at Haileybury Almaty*



# PHYSICS International A Level



## Prerequisites

Pupils will need to have IGCSE in Physics A\*- B or its equivalent.

## Reasons for studying Physics (Edexcel XPH01, YPH01)

As well as a focus on physics this course also features a large section on How Science Works. The IAL Physics syllabus enables pupils to better understand the world in which they live, and take an informed interest in science, scientific developments and how science works. Pupils learn about the basic concepts in physics through a mix of theoretical and practical studies. Pupils also develop an understanding of the scientific skills essential for further study at university level but are also, useful in everyday life.

## What you will be studying

AS Units (Lower Sixth)	A2 Units (Upper Sixth)
<p><i>IAS Unit 1: Physics on the Go (WPHo1)</i></p> <p>Topic 1 Mechanics</p> <ul style="list-style-type: none"> <li>• Motion</li> <li>• Forces</li> <li>• Energy and power</li> </ul> <p>Topic 2 Materials</p> <ul style="list-style-type: none"> <li>• Fluid flow</li> <li>• Strength of materials</li> </ul>	<p><i>IA2 Unit 4: Physics on the Move (WPHo4)</i></p> <p>Topic 1 Further mechanics</p> <ul style="list-style-type: none"> <li>• Momentum</li> <li>• Circular motion</li> </ul> <p>Topic 2 Electric and magnetic fields</p> <ul style="list-style-type: none"> <li>• Electric fields</li> <li>• Capacitors</li> <li>• Electromagnetic effects</li> </ul> <p>Topic 3 Particle physics</p> <ul style="list-style-type: none"> <li>• Matter</li> <li>• Particle accelerators</li> <li>• Particle interactions</li> </ul>
<p><i>IAS Unit 2: Physics at Work (WPHo2)</i></p> <p>Topic 3 Waves</p> <ul style="list-style-type: none"> <li>• Types and statistics of waves</li> <li>• Behaviour of waves</li> <li>• Light and sound</li> </ul> <p>Topic 4 Electricity</p> <ul style="list-style-type: none"> <li>• Electrical quantities</li> <li>• Electrical circuits</li> </ul>	<p><i>IA2 Unit 5: Physics from Creation to Collapse (WPHo5)</i></p> <p>Topic 4 Thermal energy</p> <ul style="list-style-type: none"> <li>• Heat and temperature</li> <li>• Kinetic theory of gases</li> </ul> <p>Topic 5 Nuclear decay</p> <ul style="list-style-type: none"> <li>• Nuclear radiation and decay</li> <li>• Nuclear fission and fusion</li> </ul> <p>Topic 6 Oscillations</p> <ul style="list-style-type: none"> <li>• Simple harmonic motion</li> <li>• Oscillations</li> </ul> <p>Topic 7 Astrophysics and cosmology</p> <ul style="list-style-type: none"> <li>• Gravitational fields</li> <li>• Stars</li> <li>• Hubble's law</li> </ul>
<p><i>IAS Unit 3: Exploring Physics (WPHo3)</i></p> <p>This unit will assess your knowledge and understanding of experimental procedures and techniques that were developed in Units 1 and 2.</p>	<p><i>IA2 Unit 6: Experimental Physics (WPHo6)</i></p> <p>You are expected to further develop the experimental skills and the knowledge and understanding of experimental techniques acquired in Units 1 and 2.</p> <p>It will also assess your knowledge and understanding of the experimental procedures and techniques that were developed in Units 4 and 5.</p>

## How you will be assessed

AS Units – Three exams are taken at the end of Lower Sixth	A2 Units – Three exams are taken at the end of Upper Sixth
<p><i>IAS Unit 1: Physics on the Go (WPHo1)</i></p> <p>This unit is assessed by means of a written examination paper of 1 hour 30 minutes duration, which will consist of objective, short-answer and long-answer questions. (40% of AS grade, 20% of IAL grade).</p>	<p><i>IA2 Unit 4: Physics on the Move (WPHo4)</i></p> <p>This unit is assessed by means of a written examination paper of 1 hour 35 minutes duration, which will consist of objective, short-answer and long-answer questions. (20% of IAL grade).</p>
<p><i>IAS Unit 2: Physics at Work (WPHo2)</i></p> <p>This unit is assessed by means of a written examination paper of 1 hour 30 minutes duration, which will consist of objective, short-answer and long-answer questions. (40% of AS grade, 20% of IAL grade).</p>	<p><i>IA2 Unit 5: Physics from Creation to Collapse (WPHo5)</i></p> <p>This unit is assessed by means of a written examination paper of 1 hour 35 minutes duration, which will consist of objective, short-answer and long-answer questions. (20% of IAL grade).</p>
<p><i>IAS Unit 3: Exploring Physics (WPHo3)</i></p> <p>This unit is assessed by means of a written examination paper of 1 hour 20 minutes duration, which will consist of objective, short-answer and long-answer questions. (20% of AS grade, 10% of IAL grade)</p>	<p><i>IA2 Unit 6: Experimental Physics (WPHo6)</i></p> <p>This unit is assessed by means of a written examination paper of 1 hour 20 minutes duration, which will consist of short-answer and long-answer questions. (10% of IAL grade)</p> <p>The results from the AS and A2 exams combine to give an IAL overall grade (the weighting is 50:50) grades are A* to E.</p>



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Physics



# POLITICS International A Level



## Prerequisites

Pupils will have gained IGCSE in a Humanities subject to grade A\*- C to qualify for the course as well as meeting the school's requirement to enter the sixth form.

## Reasons for studying Politics (Edexcel)

The aims and objectives of this qualification are to enable pupils to:

- Develop knowledge and an informed understanding of contemporary political structures and issues in their historical context, both within the United Kingdom (UK) and globally
- Develop a critical awareness of the changing nature of politics and the relationships between political ideas, institutions and processes
- Develop knowledge and an informed understanding of the influences and interests which have an impact on decisions in government and politics
- Develop knowledge and an informed understanding of the rights and responsibilities of individuals and groups
- Develop the ability to critically analyse, interpret and evaluate political information to form arguments and make judgements
- Develop an interest in, and engagement with, contemporary politics.

The EDEXCEL syllabus has been chosen for Haileybury pupils because it offers the opportunity to study Global Politics.

Politics is an obvious choice of subject for people who want a career in government or law, but it is also relevant for anyone who wishes to go into other international organisations (corporate or charitable) or into journalism. Politics combines well with subjects such as History, Economics, Geography and Modern Languages.

## How you will learn

Pupils will acquire knowledge, understanding and a range of skills through research, using ICT, graphic and presentational work, discussion and group work using a number of different resources. We use a variety of teaching styles including interactive lessons to access all pupils' learning styles.

## What you will be studying

### Paper 1 - UK Politics

#### 1. *Political Participation, pupils will study:*

- Democracy and participation, political parties, electoral systems, voting behaviour and the media.

#### 2. *Core Political Ideas, pupils will study:*

- Conservatism, liberalism, socialism.

### Paper 2 - UK Government

#### 1. *UK Government, pupils will study:*

- The constitution, parliament, Prime Minister and executive, relationships between the branches.

#### 2. *Optional Political Ideas, pupils will study:*

- One idea from the following: anarchism, ecologism, feminism, multiculturalism, nationalism.



### Paper 3 - Comparative Global Politics

Theories of Global Politics, sovereignty and globalisation, global governance: political and economic, global governance: human rights and environmental, power and developments, regionalism and the European Union.

### How you will be assessed

#### Paper 1 - UK Politics

##### Written examination

2 hours, 33.33% of the qualification, 84 marks.

##### Section A - Political Participation

- One 30-mark questions from a choice of two (each question is based on an extract). Plus one 30-mark essay question from a choice of two.

##### Section B - Core Political Ideas

- One 24-mark essay question from a choice of two.

#### Paper 2 - UK Government

##### Written examination

2 hours, 33.33% of the qualification, 84 marks.

##### Section A - UK Government

- One 30-mark questions from a choice of two (each question is based on an extract). Plus one 30-mark essay question from a choice of two.

##### Section B - Non-Core Political Ideas

- One 24-mark essay question from a choice of two.

### Paper 3 - Comparative Global Politics

##### Written examination

2 hours, 33.33% of the qualification, 84 marks.

- *Section A*: One 12-mark question from a choice of two.
- *Section B*: One compulsory 12-mark question based on a source.
- *Section C*: Two 30-mark questions from a choice of three.

Pupils sit Paper 1 and Paper 2 (without the questions on Core and Non-Core Political Ideologies) at the end of the Lower Sixth for the Advanced Subsidiary Level as a stand-alone qualification. Paper 1 and Paper 2 at AS Level are each 1 hour and 45 minutes. This approach means that pupils will have an external qualification in the subject when they are applying to universities in the Upper Sixth.

Pupils then sit Papers 1 and 2 (same content, different format, plus the questions on Core and Non-Core Political Ideologies) and Paper 3 at the end of the Upper Sixth for the Advanced Level qualification.

# PSYCHOLOGY International A Level



## Prerequisites

Pupils will have gained 5 C grades including English Language to qualify for the course as well as meeting the school's requirement to enter the Sixth Form.

## Reasons for studying Psychology (CIE A Level)

Psychology investigates why people behave as they do using scientific method. It is the most chosen degree level subject in the UK and in America. Psychology is studied by so many because of its wide range of significant applications.

Psychology is well known for helping people cope with the anxiety, stress and pressures of living and in creating a state of wellbeing. It is also used to help the physically ill and the mentally ill.

In addition to health and well-being the study of Psychology is used in all the following and more: designing and selling a product, persuading people to watch a certain TV show, managing and motivating employees, persuading people to vote in a certain way, public speaking, negotiating with a terrorist, holding a relationship together, bringing up children, teaching effectively, learning effectively, catching criminals, creation and innovation, designing buildings and cities, being successful in sport...

...knowledge of Psychology is relevant to any field involving human behaviour.

## What you will be studying

### Papers 1 & 2

Four approaches are considered.

1. Biological psychology – explaining behaviour through biological processes
2. Cognitive psychology – explaining behaviour through patterns of thought
3. Social psychology – explaining behaviour through influence of other people
4. Learning psychology – explaining behaviour by environmental conditioning.

### Papers 3 & 4

**Two** from the following four options must be taken.

1. Abnormal psychology (e.g. depression, anxiety disorders, addictions, schizophrenia)
2. Health psychology (e.g. stress, pain, doctor-patient interactions, non-adherence to medical instruction, health promotion)
3. Organisational psychology (e.g. motivation to work, leadership and management, group behaviour, working conditions, job satisfaction)
4. Consumer behaviour (e.g. influence of physical and psychological environments, consumer decision-making, advertising).

# RUSSIAN International A Level



## Why choose the Edexcel Level 3 Advanced GCE in Russian?

We believe languages should appeal to all pupils. The new Edexcel Level 3 Advanced GCE in Russian has been developed to inspire all pupils to have an appreciation of the language, literature, film and culture of the Russian-speaking world.

New and motivating course of study that will enable pupils to develop advanced level knowledge and understanding of the Russian language, the culture of Russia and other Russian-speaking countries and communities, as well as practical and valuable language and transferable study skills. This specification will help to prepare pupils for higher education and enhance their employability profile.

**Inspiring and engaging themes** – our qualification features familiar and popular themes, as well as some new content that provides clear links to some of the most fundamental and interesting aspects of the culture of Russian-speaking countries and communities.

**Popular literary texts and films** – we offer a choice of literary texts and films that includes contemporary and more classical titles, together with authentic source materials from Russia.

**Rewards creativity** – assessments place an emphasis on spontaneity and grammar, as well as providing plenty of opportunities for pupils to apply their knowledge independently and creatively. Clear mark schemes encourage

pupils to develop ideas, use language to persuade and analyse, and give critical responses in their writing and speaking.

**Clear and coherent structure** – our qualification has a straightforward structure with four engaging themes: *Развитие российского общества; Политическая и художественная культура в русскоязычном мире; Москва или Санкт-Петербург - Изменения в жизни большого российского города; Последние годы СССР – М. С. Горбачёв (1985-1991).*

The four themes are studied alongside two works (either two literary texts or one literary text and one film) assessed through two externally-examined papers (Papers 1 and 2) and one teacher-examiner conducted speaking assessment (Paper 3).

**Manageable content** – the content is manageable and appropriate.

**Continuous progression** – content builds on the understanding developed in Sixth Form and gives pupils the opportunity to learn and apply important transferable skills in critical thinking and analysis, enabling them to make a smooth transition to the next level of study.

**AS and A Level qualifications that are co-teachable** – co-teaching AS and A Level provides flexibility for you and your pupils. Centres co-teaching AS and A Level can deliver Theme 1 and Theme 2 and one literary text or film in the first year, allowing pupils to be entered for the AS Level at the end of the year.

## Content and assessment overview

The Pearson Edexcel Level 3 Advanced GCE in Russian consists of two externally-examined papers assessing listening, reading and writing and a non-examined speaking assessment. The speaking assessment is externally set and conducted by a teacher-examiner. All assessments are marked by Pearson.

Pupils must complete their speaking assessment during a timetabled assessment window in April/May and all other assessments in May/June in any single year.

It is usual for teachers to conduct the speaking assessment with their pupils in April/May.



## Paper 1: Listening, reading and translation

(\*Paper code: 9RU0/01)

### Written examination

- 2 hours
- 40% of the qualification
- 80 marks

### Content overview

This paper draws on vocabulary and structures across all four themes listed on pages 8–9. Themes are based on the society and culture of the language being studied

### Assessment overview

Pupils are not permitted access to a dictionary during the examination. The examination is made up of:

#### *Section A: Listening (30 marks)*

- A listening assessment based on a recording that features male and female Russian speakers. Pupils will respond to comprehension questions based on a variety of contexts and sources.
- The listening audio files for the sample assessment materials are available on the Pearson Edexcel website.

#### *Section B: Reading (30 marks)*

- A reading assessment based on a variety of text types and genres where pupils must respond to comprehension questions.

#### *Section C: Translation into English (20 marks)*

- An unseen passage to be translated from Russian to English.

## **Paper 2: Written response to works and translation** (\*Paper code: 9RUo/02)

### **Written examination**

- 2 hours and 40 minutes
- 30% of the qualification
- 120 marks

### **Content overview**

This paper draws on the study of two discrete Russian works: either two literary texts or one literary text and one film. The works must be taken from the list provided in Appendix 2: Prescribed literary texts and films. The literary texts listed include a range of novels, plays and a series of short stories. All of the films are feature length.

### **Assessment overview**

This paper includes a translation exercise and two essays on either two literary texts or one literary text and one film (pupils must not answer questions on two films).

Pupils are not permitted access to a dictionary or any documentation relating to the works during the examination.

#### *Section A: Translation (20 marks)*

- Pupils translate an unseen passage from English into Russian.

#### *Section B: Written response to works (literary texts) (50 marks)*

- Pupils must write an extended response on either one or two of the literary texts listed in.

#### *Appendix 2: Prescribed literary texts and films.*

- Pupils select one question from a choice of two for each of their chosen literary text(s). If a pupil answers questions on two literary texts then they do not complete Section C.

#### *Section C: Written response to works (films) (50 marks)*

- Pupils who answer only one question from a literary text in Section B must write an extended response on one of the films listed in Appendix 2: Prescribed literary texts and films.
- Pupils select one question from a choice of two for their chosen film.

### **Paper 3: Speaking (\*Paper code: 9RUo/03)**

- Internally conducted and externally assessed
- Total assessment time: between 21 and 23 minutes, which includes a single period of 5 minutes' formal preparation time
- 30% of the qualification
- 72 marks

#### **Content overview**

*Task 1* draws on vocabulary and structures across all four themes (listed on pages 8–9).

*Task 2* is based on independent research selected and carried out by the pupil.

The research may be based on one of the themes or on the pupil's own subject of interest related to Russian-speaking society and culture.

Pupils will be assessed on their ability to use a range of language accurately, communicate and interact effectively, summarise and analyse findings from written sources relating to their research subject, and show knowledge and understanding about Russian-speaking culture and society.

#### **Assessment overview**

Pupils complete two tasks. Task 1 is worth 30 marks and Task 2 is worth 42 marks.

#### *Task 1 (discussion on a theme)*

- Pupils discuss one theme from the specification based on a stimulus containing two different statements.

#### *Task 2, Part 1 (independent research presentation)*

- Pupils present a summary of at least two of the written sources they have used for their research and give a personal response to what they have read.

#### *Task 2, Part 2 (discussion on independent research)*

- Pupils answer questions on their presentation and then have a wider discussion on their research.





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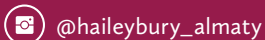
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