

AS and A Level *Guide*



COMPASS INTERNATIONAL SCHOOL
A NORD ANGLIA EDUCATION SCHOOL

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Message from the Head of Secondary

Dear Students and Parents,

We live in exciting times. For those who are moving into the next stage of their education, the challenges of choosing the right subjects (for the right reasons) for their potential future careers can be daunting. The aim of this booklet is to provide a broad outline of the content and the assessment method(s) for each subject. Further and more in-depth information may be accessed at <https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-advanced/cambridge-international-as-and-a-levels/subjects/>

Choosing your own combination of AS levels is an important step in moving forward and should be based purely on your love of a subject, your ambition and your interests. The decisions you make now can either open or close doors and should be taken alongside the advice of teachers and family members. You are not alone in this and you should seek as many trusted opinions as you can.

Above all, consider the following

- Are you interested in the subject and the content taught?
- Do you possess, or are you able to learn, the skills required for success in the subject?
- Is the subject required for your future, professional goals?
- Are you academically strong in the subject and can you handle 5 hours of lessons every week in school studying this matter?

Whilst a positive relationship between a teacher and a student is of utmost importance, this is not one of the reasons for opting for a subject. Staff come and go, especially in international schools, and so choosing a subject primarily because of a teacher would be foolhardy.



AS and A levels are academically demanding, requiring time to be spent outside of school reviewing notes, carrying out research and learning vast amounts of knowledge. The number of hours, level of self-discipline and determination increase dramatically between Year 11 and 12. For entry, we require 5 A*-C grades (including English). For any degree of success at AS level, an absolute minimum of a Grade C (4) at IGCSE is required, with the preference of a Grade B (5/6) or higher in most subjects. Subject decisions are made on an individual basis as everyone's circumstances are unique. Parents and students are invited to make an appointment with the school's leadership to discuss their son's and daughter's future pathway. Please digest the contents of this booklet carefully and I look forward to meeting you all in the coming weeks.

Warm regards,

Brian Irving

Head of Secondary, Themaid Campus

<https://www.theuniguide.co.uk/advice/a-level-choices/six-things-you-need-to-know-before-making-your-a-level-choices>

<https://www.whatuni.com/advice/guides/the-ultimate-guide-to-choosing-your-a-levels/57528/>

Cambridge International AS Level in languages other than English is accepted by universities and employers as proof of linguistic ability and understanding.

The examinations are designed to assess candidates' linguistic competence and their knowledge of contemporary society. In the exams, candidates will be expected to:

- Understand and respond to texts written in the target language, drawn from a variety of sources such as magazines, newspapers, reports, books and other forms of extended writing
- Manipulate the target language accurately in spoken and written forms, choosing appropriate examples of lexis and structures
- Select information and present it in the target language
- Organise arguments and ideas logically.

Content

All textual material used in the examinations will be drawn from the topic areas below, with reference to the country or countries where the language is spoken.

- Human relationships
- Family
- Generation gap
- Young people
- Patterns of daily life
- Urban and rural life
- The media
- Food and drink
- Law and order
- Philosophy and belief
- Health and fitness

- Work and leisure
- Equality of opportunity
- Employment and unemployment
- Sport
- Free time activities
- Travel and tourism
- Education
- Cultural life/heritage
- War and peace
- Social and economic development
- Scientific and medical advances
- Technological innovation
- Environment
- Conservation
- Pollution
- Contemporary aspects of the country or countries where the language is spoken

Assessment

Component 2: Reading and Writing
– 1 hour 45 mins (75%)

Component 3: Essay – 1 hour 30 mins
(25%)



Biology is a rapidly expanding science. It forms the basis of new and exciting fields of study, such as Biotechnology, Genetics and Ecology. Studying A Level Biology will enable a student to follow one of these courses at university. Students wishing to study Medicine, Dentistry or Veterinary Science may also take Biology as one of their A Level choices.

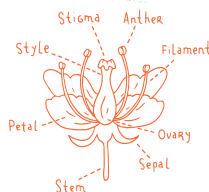
Cambridge International AS and A Level Biology builds on the skills acquired at Cambridge IGCSE (or equivalent) level. The syllabus includes the main theoretical concepts which are fundamental to the subject, some current applications of biology, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination.

The emphasis throughout is on the understanding of concepts and the application of biology ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path.

Content

Candidates for Edexcel International AS Level Biology study the following topics

- Molecules, Transport and Health
- Membranes, Proteins, DNA and Gene Expression
- Cell Structure, Reproduction and Development
- Plant Structure and Function, Biodiversity and Conservation



AS candidates also study practical skills. Candidates for Edexcel International A level study the AS topics as well as the following topics.

- Energy Flow, Ecosystems and Environment
- Microbiology, Immunity and Forensics
- Respiration, Muscles and Internal Environment
- Co-ordination, Response and Gene Technology
- A level Candidates also study practical skills

Assessment

AS level (end of year 12)

Paper 1 - Questions on topics one and two - 1 hour and 30 minutes

Paper 2 - Questions on topics three and four - 1 hour and 30 minutes

Both paper 1 and 2 may include multiple-choice, short-open, open-response, calculations and extended-writing questions.

Paper 3 - Practical skills in Biology 1 - 1 hour and 20 minutes

A level (end of year 13)

Paper 4 - Questions on topics five and six - 1 hour and 45 minutes

Paper 5 - Questions on topics seven and eight - 1 hour and 45 minutes

Both paper 3 and 4 may include multiple-choice, short-open, open-response, calculations and extended-writing questions.

Paper 6 - Practical skills in Biology 2 - 1 Hour 20 minutes



INTERNATIONAL SCHOOL
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The study of Cambridge International AS and A Level Business allows learners to take the first step towards a career in private or public organisations or progress with confidence to a degree in business and management related subjects.

This A Level is a natural progression from the IGCSE Business Studies, although it is possible to take the course with no background in Business. The Cambridge learner at A Level in Business can develop the capacity to analyse characteristics and activities of business organisations and how they respond to the changing demands of their environments. An understanding of how effective managers and leaders develop successful organisations in terms of customer focus and the products/services they offer. The opportunity is given to reflect on how successful businesses engage in the financial and accounting side of organisations. Practices to maximise value for stakeholders are explored and the development of knowledge that relates to strategic planning and decision-making to ensure business survival, change, and sustainable success giving the student a solid foundation for further study.

Content

Candidates for Cambridge International AS Level Business study the following topics:

- 1. Business and environment** • Enterprise • Business structure • Size of business • Business objectives • Stakeholders in a business
- 2. People in organisations** • Management and leadership • Motivation • Human resource management
- 3. Marketing** • What is marketing? • Market research • The marketing mix

- 4. Operations and project management** • The nature of operations • Operations planning • Inventory management
- 5. Finance and accounting** • The need for business finance • Sources of finance • Costs • Accounting fundamentals • Forecasting cash flows and managing working capital

Candidates for Cambridge International A Level Business study the AS Level topics and the following topics:

- 1. Business and environment** • Business structure • Size of business • External influences on business activity
- 2. People in organisations** • Human resource management • Organisational structure • Business communication
- 3. Marketing** • Marketing planning • Globalisation and international marketing
- 4. Operations and project management** • Operations planning • Capacity utilisation • Lean production and quality management • Project management
- 5. Finance and accounting** • Costs • Budgets • Contents of published accounts • Analysis of published accounts • Investment appraisal
- 6. Strategic management** • What is strategic management? • Strategic analysis • Strategic choice • Strategic implementation

Assessment

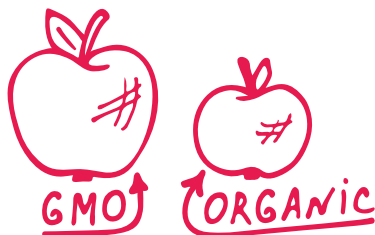
Year 12 (AS Level)

Paper 1: Short answer and essay – 1 hour 15 mins

Paper 2: Data response – 1 hour 30 mins

Year 13 (A Level only)

Paper 3: Case study – 3 hours



A Level Chemistry studies the material world and through it we can describe and explain our experiences. From baking a cake to recharging a mobile phone, Chemistry is involved in everything we do and every day life is influenced by many aspects of Chemistry. This subject will continue to be at the forefront of responding to the needs of society; with chemists central to making advances in designing new materials, efficient energy use, drug development and technology.

Edexcel International AS and A Level Chemistry builds on the skills acquired at Edexcel IGCSE (or equivalent) level. The syllabus includes the main theoretical concepts which are fundamental to the subject, some current applications of chemistry, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination.

The emphasis throughout is on the understanding of concepts and the application of chemistry ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path.

Content

Candidates for Edexcel International AS Level Chemistry study the following topics:

Unit 1

1. Formulae, Equations and Amount of Substance
2. Atomic Structure and the Periodic Table
3. Bonding and Structure
4. Introductory Organic Chemistry and Alkanes
5. Alkenes

Unit 2

1. Energetics
2. Intermolecular Forces
3. Redox Chemistry and Groups 1, 2 and 7
4. Introduction to Kinetics and Equilibria
5. Organic Chemistry: Alcohols, Halogenoalkanes and Spectra
6. AS Level candidates also study practical skills

Unit 3

1. Practical Skills in Chemistry

Candidates for Edexcel International A Level Chemistry study the following topics:

Unit 4

1. Kinetics
2. Entropy and energetics
3. Chemical Equilibria
4. Acid-Base Equilibria
5. Organic chemistry: Carbonyls, Carboxylic
6. Acids and Chirality

Unit 5

1. Redox Equilibria
2. Transition metals and their chemistry
3. Organic chemistry: Arenes
4. Organic Nitrogen Compounds: Amines, Amides, Amino Acids and Proteins
5. Organic synthesis

Unit 6

Practical skills

Assessment

AS Level (end of Year 12)

Paper 1-Unit 1: 1 hour 30 mins

Paper 2- Unit 2: 1 hour 30 mins

Both Paper 1 and 2 may include multiple choice, short-open, open-response, calculations and extended writing questions.

Paper 3- Practical skills in Chemistry- 1 hour 20 minutes

A Level (end of Year 13)

Paper 4-Unit 4: 1 hour 45 minutes



Paper 5-Unit 5: 1 hour 45 minutes

Both paper 3 and 4 may include multiple choice, short-open, open-response, calculations and extended writing questions.

Paper 6: Practical Skills in Chemistry- 1 hour 20 minutes.

Assessment

AS Level (end of Year 12)

Paper 1: 40 multiple choice questions- 1 hour 15 mins

Paper 2- Unit 2: Structured questions- 1 hour 30 mins

Paper 3- Advanced practical skills- (practical)- 2 hours

A Level (end of Year 13)

Paper 4: Structured questions-2 hours

Paper 5: Planning, analysis and evaluation- 1 hour 15 mins

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37 Rb RUBIDIUM 85.467	38 Sr STRONTIUM 87.62	39 Y YTTRIUM 88.9058	40 Zr ZIRCONIUM 91.224	41 Nb NIOBIUM 92.9063	42 Mo MOLYBDENUM 95.95	43 Tc TECHNETIUM (98)



The study of Cambridge International AS and A Level Economics allows learners to explore concepts and theories which can be applied to the way that modern economies work. Cambridge learners develop the ability to explain, evaluate and analyse economic issues and arguments. They gain lifelong skills and a solid foundation for further study. Learners study how to explain and analyse economic issues and arguments, evaluate economic information, and organise, present and communicate ideas and judgements clearly.

Cambridge International A Level Economics provides a suitable foundation for the study of Economics or related courses in higher education. Equally it is suitable as part of a course of general education. Students do not need to have studied Economics previously.

Content

Candidates for Cambridge International AS Level Economics study the following topics:

- 1.** Basic economic ideas and resource allocation • Scarcity, choice and opportunity cost • Positive and normative statements • Factors of production • Resource allocation in different economic systems and issues of transition • Production possibility curves • Money • Classification of goods and services
- 2.** The price system and the micro economy • Demand and supply curves • Price elasticity, income elasticity and cross-elasticities of demand • Price elasticity of supply • Interaction of demand and supply • Market equilibrium and disequilibrium • Consumer and producer surplus
- 3.** Government microeconomic intervention • Maximum and minimum prices • Taxes (direct and indirect) • Subsidies • Transfer payments • Direct provision of goods and services • Nationalisation and privatisation
- 4.** The macro economy • Aggregate Demand and Aggregate Supply analysis • Inflation • Balance of payments • Exchange rates • The terms of trade • Principles of absolute and comparative advantage • Protectionism
- 5.** Government macro intervention • Types of policy: fiscal, monetary and supply side policy • Policies to correct balance of payments disequilibrium • Policies to correct inflation and deflation

Candidates for Cambridge International A Level Economics study the AS Level topics and the following topics:

- 1. Basic economic ideas and resource allocation** • Efficient resource allocation • Externalities and market failure • Social costs and benefits; cost-benefit analysis
- 2. The price system and the micro economy** • Law of diminishing marginal utility • Indifference curves • Budget lines • Types of cost, revenue and profit, short-run and long-run production • Different market structures • Growth and survival of firms • Differing objectives of a firm
- 3. Government microeconomic intervention** • Policies to achieve efficient resource allocation and correct market failure • Equity and policies towards income and wealth redistribution • Labour market forces and government intervention: – Demand and supply of labour – Wage determination in perfect markets – Wage determination in imperfect markets • Government failure in microeconomic intervention
- 4. The macro economy** • Economic growth, economic development and sustainability • National Income statistics • Classification of countries • Employment/unemployment • The circular flow of income • Money supply (theory) • Keynesian and Monetarist schools • The demand for money and interest rate determination • Policies towards developing economies; policies of trade and aid
- 5. Government macro intervention** • Government macro policy aims • Inter-connectedness of problems • Effectiveness of policy options to meet all macroeconomic objectives

Assessment

Year 12 (AS Level)

Paper 1: Multiple choice – 1 hour

Paper 2: Data response and essay
– 1 hour 30 mins

Year 13 (A Level only)

Paper 3: Multiple choice – 1 hour 15 mins

Paper 4: Data response and essays
– 2 hours 15 mins



The English Language course combines linguistic analysis with original writing, requiring students to recognise how texts are crafted for different purposes and audiences, and to recreate this crafting in their own work.

Students develop both analytical and creative writing in a wide range of forms, including but not limited to travel writing, reviews, blogs, promotional texts, speeches, short stories, scripts and transcripts.

Content

Students in Year 12 deconstruct and recreate a range of genres which are either imaginative, narrative, descriptive, persuasive or argumentative in purpose. They are assessed by two examinations: one producing analytical commentaries on text, and one in which they produce original writing in response to a set writing brief.

Students in Year 13 continue to build on these skills of analysis and composition, together with studying language in real world contexts, analysing transcribed spoken language given in three contexts: language acquisition, social groups and global English. Students are assessed by two examinations: one which combines directed writing with analysis, and a second which requires students to analyse a commentary derived from one of the three language contexts they have studied.

Assessment

AS Level (end of Year 12)

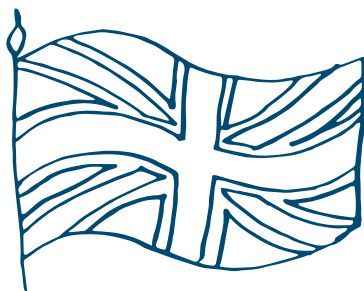
Paper 1: Reading – 2 hours 15 mins

Paper 2: Writing – 2 hours

A Level (end of Year 13)

Paper 3: Language analysis
– 2 hours 15 mins

Paper 4: Language topics
– 2 hours 15 mins



Successful English learners develop a lifelong understanding and enjoyment of literary tools, texts, and, importantly, gain a range of essential skills, including:

- the ability to write clearly and effectively
- skills in developing arguments
- skills in researching and managing information
- the ability to analyse complex texts in different forms and styles

Content

Students in Year 12 study the genres of poetry, prose and drama and are assessed by two closed text examinations.

Students in Year 13 study one Shakespearean play and one other pre-20th century text. These texts are assessed by a closed text examination. Students are required to produce a coursework portfolio of two essay responses on two different texts and literary forms.

This course is suited to students who have an interest in reading a wide variety of contemporary and traditional literature, and to those who are enthusiastic about expressing opinions and discussing their responses with others. Students will learn to recognise the relevance of literature to wider society and make links to the world that we live in.

Assessment

AS Level (end of Year 12)

Paper 1: Drama and Poetry – 2 hours

Paper 2: Prose and unseen – 2 hours

A Level (end of Year 13)

Paper 3: Shakespeare and Drama – 2 hours

Paper 4: Pre and Post 1900 Poetry and Prose – 2 hours



Please note: Candidates wishing to take a Cambridge International A Level must take all components of the assessment in the same examination series. It is not possible for candidates to take AS level and then A Level (unlike other subjects).

French is a course where the language, culture and recent history of the Francophone countries are studied in depth. During the two years, students will be exploring music trends, watching films and reading French literature in a more in depth way than they did at IGCSE level.

Within the AS course, topics such as changing family structures, education and world of work, media, music and traditions will be studied. The students are expected to retain grammar, vocabulary and tense work from their IGCSE as they embark on their new adventure taking them from AS to A Level.

Content

All textual material used in the examinations will be drawn from the topic areas below, with reference to the country or countries where the language is spoken.

- Human relationships
- Family
- Generation gap
- Young people
- Patterns of daily life
- Urban and rural life
- The media
- Food and drink
- Law and order
- Philosophy and belief
- Health and fitness
- Work and leisure

- Equality of opportunity
- Employment and unemployment
- Sport
- Free time activities
- Travel and tourism
- Education
- Cultural life/heritage
- War and peace
- Social and economic development
- Scientific and medical advances
- Technological innovation
- Environment
- Conservation
- Pollution
- Contemporary aspects of the country or countries where the language is spoken

Assessment

AS Level (end of Year 12)

Component 1: Speaking test – 20 mins (29%)

Component 2: Reading and Writing – 1 hour 45 mins (50%)

Component 3 Essay – 1 hour 30 mins (21%)

A Level (end of Year 13 only)

Component 1: Speaking test – 20 mins (20%)

Component 2: Reading and Writing – 1 hour 45 mins (35%)

Component 3: Essay – 1 hour 30 mins (15%)

Component 4: Texts – 2 hours 30 mins (30%)

Geography is a flexible subject which complements both Sciences and Arts/ Humanities subjects. This means that you can keep your options open when looking at Higher Education and Careers. It is important that you should have a lively and enquiring mind, an interest in the environment and current affairs and a willingness to explore new ideas and communicate your ideas effectively.

The Geography syllabus builds upon skills gained at Cambridge IGCSE (or equivalent) level study. Learners widen their knowledge and understanding of the subject, while developing their investigative abilities and their evaluation and decision-making skills.

The syllabus is wide-ranging and comprises a variety of options. For example, learners can study topics such as hydrology and fluvial geomorphology, atmosphere and weather, rocks and weathering, population change and settlement dynamics. The syllabus considers a range of environments, from tropical to arid, and learners can also study subjects such as environmental management, global interdependence and economic transition.

Content

Candidates for Cambridge International AS Level Geography study the following topics:

- Core Physical Geography
- Hydrology and fluvial geomorphology
- Atmosphere and weather
- Rocks and weathering
- Core Human Geography
- Population
- Migration
- Settlement dynamics

Candidates for Cambridge International A Level Geography study the AS Level topics and two options from:

- Advanced Physical Geography Options
- Tropical environments
- Coastal environments
- Hazardous environments
- Hot arid and semi-arid environments

And two options from:

- Advanced Human Geography Options
- Production, location and change
- Environmental management
- Global interdependence
- Economic transition

Assessment

AS Level (end of Year 12)

Paper 1: Core Physical Geography
– 1 hour 30 mins

Paper 2: Core Human Geography
– 1 hour 30 mins

A Level (end of Year 13)

Paper 3: Advanced Physical Geography Options – 1 hour 30 mins

Paper 4: Advanced Human Geography Options – 1 hour 30 mins



Cambridge International AS Level History makes up the first half of the Cambridge International A Level course in History and provides a foundation for the study of History at Cambridge International A Level. Depending on local university entrance requirements, students may be able to use it to progress directly to university courses in History or some other subjects. It is also suitable as part of a course of general education.

The key concepts for Cambridge International AS and A Level History are:

- Cause and consequence - The events, circumstances, actions and beliefs that have a direct causal connection to consequential events and developments, circumstances, actions or beliefs.
- Change and continuity - The patterns, processes and interplay of change and continuity within a given time frame.
- Similarity and difference - The patterns of similarity and difference that exist between people, lived experiences, events and situations in the past.
- Significance - The importance attached to an event, individual or entity in the past, whether at the time or subsequent to it.
- Interpretations - How the past has been subsequently reconstructed and presented by historians.

Content

Candidates for Cambridge International AS Level History study the following topics:

For **Papers 1 and 2** candidates study one of the following options:

European option:

Modern Europe, 1750–1921

- France, 1774–1814
- The Industrial Revolution in Britain, 1750–1850
- Liberalism and nationalism in Germany, 1815–71
- The Russian Revolution, 1894–1921
- American option: The history of the USA, 1820–1941
- The origins of the Civil War, 1820–61
- Civil War and Reconstruction, 1861–77
- The Gilded Age and Progressive Era, 1870s to 1920
- The Great Crash, The Great Depression and the New Deal policies, 1920–41

International option:

International history, 1870–1945

- Empire and the emergence of world powers, 1870–1919
- The League of Nations and international relations in the 1920s
- The League of Nations and international relations in the 1930s
- China and Japan, 1912–45

Note: AS Level topics rotate between papers 1 and 2 year-on-year. The prescribed topic for Paper 1 in any given year is not used for Paper 2.

Candidates for Cambridge International A Level History study the following plus the AS topics:

Paper 3

- **Topic 1:** The origins of the First World War
- **Topic 2:** The Holocaust
- **Topic 3:** The origins and development of the Cold War

Paper 4

European option, depth study 1:

European history in the interwar years, 1919–41

- Theme 1: Mussolini's Italy, 1919–41
- Theme 2: Stalin's Russia, 1924–41
- Theme 3: Hitler's Germany, 1929–41
- Theme 4: Britain, 1919–39

American option, depth study 2:

The USA, 1944–92

- Theme 1: The late 1940s and 1950s
- Theme 2: The 1960s and the 1970s
- Theme 3: The 1980s and early 1990s
- Theme 4: Foreign policy, 1944–92

International option, depth study 3:

International history, 1945–92

- Theme 1: US–Soviet relations during the Cold War, 1950–91
- Theme 2: The spread of communism in East and Southeast Asia, 1945–91
- Theme 3: Decolonisation, the Cold War and the UN in Sub-Saharan Africa, 1950–92
- Theme 4: Conflict in the Middle East, 1948–91

Assessment

AS Level (end of Year 12):

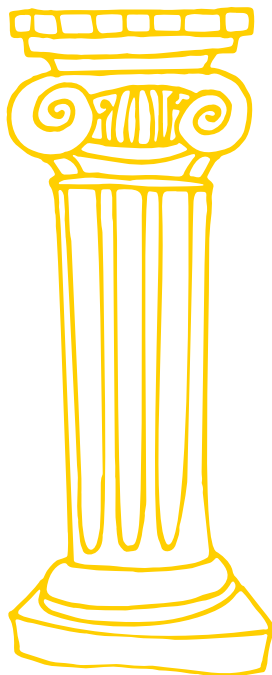
Paper 1: Document question
– 1 hour 15 mins

Paper 2: Outline study – 1 hour 45 mins

A level (end of year 13):

Paper 3: Interpretations question
– 1 hour 15 mins

Paper 4: Depth study – 1 hour 45 mins



Please note: Islamic studies will only be available at AS Level in Year 12. There will be no A Level Islamic Studies course. Students will also be able to opt to take a shorter course of only 2 hours a week which will not lead to an AS Level qualification.

The key concepts for Cambridge International AS and A Level Islamic Studies are:

The aims of this course are to enable students to:

- Develop knowledge and understanding appropriate to a specialist study of Islam
- Develop an understanding and appreciation of Islamic thought and practice and its contribution to individuals, communities and societies
- Develop an interest in a rigorous study of Islam and relate it to the wider world and their own experiences
- Reflect on and develop their own values, opinions and attitudes in the light of their study of Islam
- Engage with scholarly debate about Islam and develop an ability to express and justify their own opinions
- Adopt an enquiring and reflective approach to the study of Islamic religion which will form a solid foundation for further study.

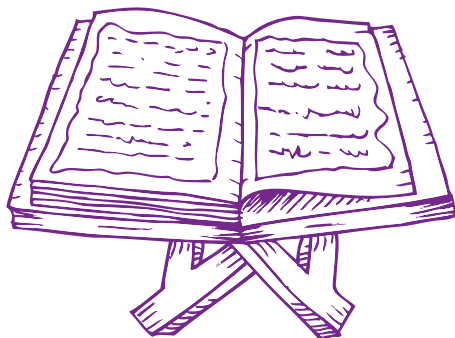
Assessment

Paper 1: 1 hour 30 minutes – 50%

- Islamic beliefs and practices
- Structured questions
- Candidates answer one compulsory question based on the prescribed Qur'anic and Hadith texts and one additional question from a choice of two.

Paper 2: 1 hour 30 minutes – 50%

- Islamic law (shariah) and its application
- **Section A:** Structured questions. Candidates answer one question from a choice of two.
- **Section B:** Structured questions. Candidates answer one question from a choice of two.





Edexcel International AS & 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.

Content

1. Pure Mathematics 1 (WMA11)

- 1.1. Algebraic expressions
- 1.2. Quadratics
- 1.3. Equations and inequalities
- 1.4. Graphs and transformations
- 1.5. Straight line graphs
- 1.6. Trigonometric ratios
- 1.7. Radians
- 1.8. Differentiation
- 1.9. Integration

2. Pure Mathematics 2 (WMA12)

- 2.1 Algebraic methods
- 2.2 Coordinate geometry in the (x,y) plane
- 2.3 Exponentials and logarithms
- 2.4 The Binomial expansion
- 2.5 Sequences and series
- 2.6 Trigonometric identities and equations

2.7 Differentiation

2.8 Integration

3. Pure Mathematics 3 (WMA13)

- 3.1 Algebra & Functions
- 3.2 Trigonometry
- 3.3 Exponential & Logarithms
- 3.4 Differentiation
- 3.5 Integration
- 3.6 Numerical Methods

4. Pure Mathematics 4 (WMA14)

- 4.1 Proof
- 4.2 Algebra & Functions
- 4.3 Coordinate Geometry in the (x, y) plane
- 4.4 Binomial Expansion
- 4.5 Differentiation
- 4.6 Integration
- 4.& Vectors

5. Statistics 1 (WST01)

- 5.1 Representation of data
- 5.2 Measures of location and spread
- 5.3 Representations of data
- 5.4 Probability
- 5.5 Correlation and regression
- 5.6 Discrete random variables
- 5.7 The normal distribution

6. Mechanics 1 (WME01)

- 6.1 Mathematical models in mechanics
- 6.2 Vectors in mechanics
- 6.3 Kinematics of a particle moving in a straight line
- 6.4 Dynamics of a particle moving in a straight line or plane
- 6.5 Statics of a particle
- 6.6 Moments

Assessment

AS Level (end of Year 12)

The Edexcel International AS Level Mathematics qualification consists of three modules:

Pure Mathematics 1, Pure Mathematics 2
and **Statistics 1**

Each of the 6 modules listed above have an examination of 1 hour 30 minutes.

The school will be offering A Level Pure Mathematics, Statistics and Mechanics, which is most useful for those considering a career in engineering.

A Level (end of Year 13)

The Edexcel International A Level Mathematics qualification consists of the three modules taken in year 12, along with the following three modules:

Pure Mathematics 3, Pure Mathematics 4 and **Mechanics 1**

α

β

∞

π

%





Aims

Cambridge International AS and A Level Music encourages learners to develop their musical skills in a variety of music styles and traditions and build on their musical interests. Learners are encouraged to listen, compose and perform with understanding, analysis and confident communication. They learn to become independent and critical thinkers.

What prerequisites are there for A Level Music?

Ideally, students should already be taking instrumental or vocal lessons outside of regular classroom music. In order to achieve a Grade A at IGCSE Music, students will have to have reached ABRSM/Rockschool Grade 6 to Grade 8 on their instrument or voice by the Spring Term of Year 13. Practical music lessons on the chosen instrument/voice would be required to be undertaken weekly to reach the required standard at this level.

Assessment

All candidates take the following:

Externally Assessed

Paper 1: Written (2 hours) – 100 marks (60% of the AS Level, 30% of the A Level)

The paper consists of three sections in the Listening paper:

A: Composition Techniques and Performance Practice

B: Understanding Music

C: Connecting Music

And:

Component 2

Internally Marked and Externally Assessed Practical Music: Coursework – 100 marks (40% of the AS Level, 20% of the A Level)

There are two compulsory elements:

Performing and Composing

Candidates must complete:

- 6-10 minutes performance
- Two contrasting compositions, 1-2 minutes each

A Level candidates take two of the following:

Component 3

Externally Assessed

Extended Performance – Coursework 100 marks (25% of the A Level)

There are two parts to Extended Performance:

- 15-20 minute performance
- 1000-1500 word research project

Or:

Component 4

Externally Assessed

Extended Composition – Coursework 100 marks (25% of the A Level)

There are two parts to Extended Composition:

- 6-8 minute composition
- 1000-1500 word research project

Or:

Component 5

Externally Assessed

Investigating Music – Coursework 100 marks (25% of the A Level)

There are two parts to Investigating Music:

- 2500-3000 word essay
- Up 500-word reflective statement

Physics is widely recognised by universities as a valuable and academically demanding A Level. Its content is of direct relevance to a number of career paths such as all branches of Engineering and Medicine. As well as studying Physics you will also be developing many skills invaluable to your future career and life:

- A logical and numerate mind
- The ability to solve problems
- Communication skills, developed through report writing and presentations
- Computing and practical skills
- Teamwork and flexibility (essential for lab work and projects)

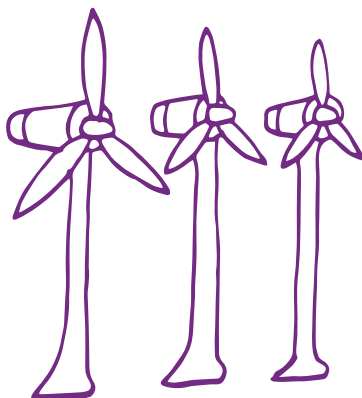
Edexcel International AS and A Level Physics builds on the skills acquired at Edexcel IGCSE (or equivalent) level. The syllabus includes the main theoretical concepts which are fundamental to the subject, some current applications of physics, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination.

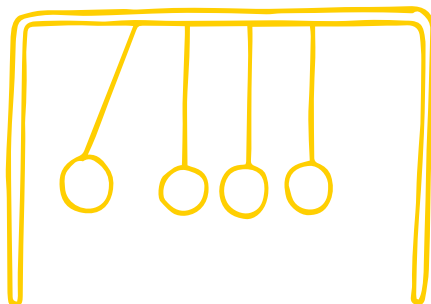
The emphasis throughout is on the understanding of concepts and the application of physics ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path.

Content

Candidates for Edexcel International AS Level Physics study the following topics:

- Working as a Physicist
- Motion
- Energy
- Momentum
- Fluids
- Solid Material properties
- Basic Waves
- The Behaviour of Waves
- Wave Properties of Light
- Quantum Physics
- Particle Physics
- Electrical Circuits





Candidates for Edexcel International A Level Physics study the AS Level topics and the following topics:

- Further Momentum
- Circular Motion
- Electric Fields
- Ideal gases
- Electromagnetic effects
- Nuclear and Particle Physics
- Particle accelerators and detectors
- Thermodynamics
- Radioactivity
- Oscillations
- Astronomy and Cosmology

A Level candidates also study practical skills.

Assessment

AS level (end of Year 12)

Unit 1: Mechanics and Materials

Written examination

1 hour 30 mins

Unit 2: Waves and Electricity

Written examination

1 hour 30 mins

Unit 3: Practical Skills in Physics

Written examination

1 hour 20 mins

A level (end of Year 13)

Unit 4: Written examination

1 hour 45 mins

Unit 5: Written examination

1 hour 45 mins

Unit 6: Written examination

1 hour 20 mins

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Please note: Candidates wishing to take a Cambridge International A Level must take all components of the assessment in the same examination series. It is not possible for candidates to take AS level and then A Level (unlike other subjects).

The higher level course in Spanish entails the students gain an understanding of Hispanic culture and the recent history of Spanish speaking countries will be studied in depth. During the two years, students explore music trends, watching films and reading Hispanic literature which gives them an insight into Spanish culture and literacy.

The AS Level course covers topics such as the impact of tourism in Spain, changing family structures and the world of work as well as enhancing their knowledge of grammar, vocabulary and tense work which the students should retain from the IGCSE course.

Content

All textual material used in the examinations will be drawn from the topic areas below, with reference to the country or countries where the language is spoken.

- Human relationships
- Family
- Generation gap
- Young people
- Patterns of daily life
- Urban and rural life
- The media
- Food and drink
- Law and order
- Philosophy and belief
- Health and fitness

- Work and leisure
- Equality of opportunity
- Employment and unemployment
- Sport
- Free time activities
- Travel and tourism
- Education
- Cultural life/heritage
- War and peace
- Social and economic development
- Scientific and medical advances
- Technological innovation
- Environment
- Conservation
- Pollution
- Contemporary aspects of the country or countries where the language is spoken

Assessment

AS Level (end of Year 12)

Component 1: Speaking test – 20 mins (29%)

Component 2: Reading and Writing – 1 hour 45 mins (50%)

Component 3: Essay – 1 hour 30 mins (21%)

A Level (end of Year 13 only)

Component 1: Speaking test – 20 mins (20%)

Component 2: Reading and Writing – 1 hour 45 mins (35%)

Component 3: Essay – 1 hour 30 mins (15%)

Component 4: Texts – 2 hours 30 mins (30%)

This syllabus encourages learners to become effective and discerning users of IT. It helps them to develop a broad range of IT skills, knowledge and understanding. Learners study the structure and use of IT systems within a wide range of organisations, including the use of a variety of computer networks. As a result, learners gain an understanding of IT system life cycles, and how these affect the workplace. They also learn about the wider impact of IT on society in general. At A Level, learners also study simple programming for the web relevant to their own use of IT.

Content

Candidates for Cambridge International AS Information Technology study the following topics 1–10.

1. Data, information, knowledge and processing
2. Hardware and software
3. Monitoring and control
4. eSafety and health and safety
5. The digital divide
6. Using networks
7. Expert systems and other types of processing
8. Spreadsheets
9. Database and file concepts
10. Sound and video editing

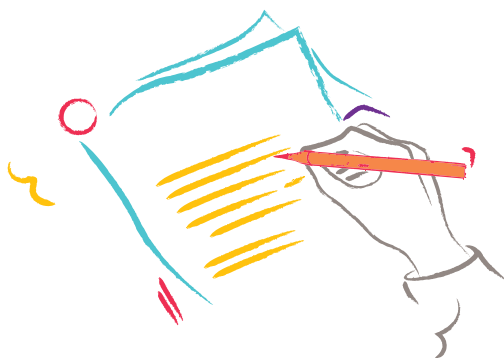
Candidates for Cambridge International A Level Information Technology study topics 1–10 and the following topics 11–19.

11. Emerging technologies
12. Role and impact of IT in society
13. Networks
14. Project management
15. System life cycle
16. Graphics creation
17. Animation
18. Mail merge
19. Programming for the web



Assessment

Components	Weighting	
	AS LEVEL	A LEVEL
Paper 1 Theory 1 hour 45 minutes	50%	25%
Paper 2 Practical 2 hours 30 minutes	50%	25%
Paper 1 Theory 1 hour 45 minutes	-	25%
Paper 2 Practical 2 hours 30 minutes	-	25%



Cambridge International AS & A Level Computer Science encourages learners to meet the needs of Higher Education courses in computer science as well as twenty-first-century digital employers. It encourages learners to think creatively, through applying practical programming solutions, demonstrating that they are effective users of technology.

Content

Candidates for Cambridge International AS Computer Science study the following topics:

- Information representation
- Communication
- Hardware
- Processor Fundamentals
- System Software
- Security, privacy, and data integrity
- Ethics and Ownership
- Databases
- Algorithm Design and Problem-Solving
- Data Types and structures
- Programming
- Software Development

Paper 1 Theory Fundamentals 1 hour 30 minutes, 50 % of the AS Level, 25% A level, 75 marks

Paper 2 Fundamentals Problem Solving and Programming Skills – 2 hours, 50 % of the AS level, 25%, A level, 75 marks

Candidates for Cambridge International A Level Computer Science study the following topics:

- Data Representation
- Communication and internet technologies
- Hardware and Virtual Machines
- System Software
- Security
- Artificial Intelligence (AI)
- Computational thinking and problem solving
- Further Programming

Paper 3 Advanced Theory 1 hour 30 minutes, 25% of A level, 75 marks

Paper 2 Practical 2 hours 30 minutes, 25% of A level 75 marks





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