



HEATHSIDE SCHOOL

SIXTH FORM COURSE BOOKLET





HEATHSIDE
SCHOOL

CONTENTS & ENTRY REQUIREMENTS

Page	Subject	Entry Requirements	Additional Information
4	Art & Design	Success in GCSE Art	
5-6	Art and Design: Graphic Communication		
7	Business	6 in GCSE Maths and English Language	If GCSE Business Studies has been studied, a B must have been achieved.
8	Computing Science	6 in GCSE Mathematics	If GCSE Computer Science has been studied, a B must have been achieved.
9	Design Technology: Engineering	B in GCSE Electronics	
10	Drama & Theatre	B in GCSE Drama and good pass at GCSE English Language (5 or above)	
11	English Literature	6 in GCSE English Language and English Literature	
12-13	Geography	B grade in GCSE Geography	
14	Government & Politics	6 in GCSE English Language and B in Geography or History	
15	History	B in GCSE History	If GCSE History has not been studied, then 6 in GCSE English may be considered.
16	Mathematics	7 or above in GCSE Mathematics. Further Maths: 8 or above in GCSE Mathematics. Preferable to have studied Additional Mathematics.	
17	Media	6 in English Language	
18	Modern Foreign Languages	B in GCSE MFL	
19	Music	Working at Grade 5 standard or above on at least one instrument. Passed Grade 5 theory.	
20	Physical Education	B in GCSE PE and Biology. Play at least one sport at competitive level.	If GCSE PE has not been studied, then B in Biology and a high level of practical may be considered.
21	Psychology	6 in GCSE English Language, B in Science, 5 in GCSE Maths	
22	Religious Studies	6 in GCSE English Language and B in Geography or History.	B in GCSE Religious Studies would be useful but not essential.
23-24	Science - Biology	B in GCSE Biology or B in GCSE Additional Science to include minimum B in Biology component. 6 in GCSE Mathematics.	
25-26	Science - Chemistry	B in GCSE Chemistry or B in GCSE Additional Science to include minimum B in Chemistry component. 6 in GCSE Mathematics.	
27-28	Science - Physics	B in GCSE Physics or B in GCSE Additional Science to include minimum B in Physics component. 6 in GCSE Mathematics.	
29	Sociology		

ART & DESIGN

EDEXCEL

AS: 8ADO
A LEVEL: 9ADO

Aims:

These courses are aimed at those students who have achieved success at GCSE in Art and Design or Textiles. We hope to develop skills acquired at GCSE, allowing students to work in more specialist areas with a greater range of media and materials. We will also focus on encouraging a greater awareness of critical studies within Art and Design. Students will be encouraged to develop further their creative responses to a variety of stimuli and we aim to provide the scope for personal interpretation of ideas and media.

Content:

Examination options: There are two distinct options available to students wishing to take an Advanced Level Art course at Heathside School:

1. Art & Design – Drawing, Painting, Colour, Composition, Stylistic Qualities, Printmaking and Digital Technology
2. Art & Design: Textile Design – Constructed Textiles, Dyeing, Printing, Embroidery, Design and Colour.

Unit 1 - Coursework - 50% of AS

Unit 2 - Externally Set Assignment - 50% of AS
10 hours timed examination
Unit Code 8ADO

Unit 3 - Coursework - 50% of A2

A written and illustrated dissertation/sketch book 1,500 -
3000 words
Unit Code 9ADO

Unit 4 - Externally Set Assignment - 50% of A2

This unit is set externally or can be based on a student's
particular area of interest
15 hours timed examination

Final Assessment:

Both AS and A Level students will be expected to 'present' their work, in its entirety, in the form of an exhibition, for internal assessment followed by external moderation by a representative from Edexcel.

Other Information:

The Advanced Levels in Art & Design and Textile Design offer challenging and absorbing courses for interested students. Whilst they require a high level of commitment, they are also courses which can provide enrichment at a personal level and preparation for further studies or employment in the field of Art and Design. For students wishing to complete the course but not anticipating a career in Art and Design, this examination has parity with other Advanced Level courses and is accepted as such at all universities and colleges.

ART & DESIGN:

GRAPHIC COMMUNICATION

EDEXCEL

A LEVEL

Aims:

Graphic communication conveys information and ideas through visual means. This course is aimed at those students who have achieved success at GCSE in Graphics or Art and Design. We are living in a digital age where there is a need for highly skilled designers. This course provides students with opportunities to develop personal responses to ideas, observations, experiences, environments and cultures in practical, critical and contextual forms. Students will be introduced to a variety of experiences exploring a range of graphic media, techniques and processes. We will also focus on encouraging a greater awareness of effective communication of a message or idea through the organisation of images and words: the critical element for a graphic designer.

Content:

Graphic communication is sub-divided into the following four disciplines: Advertising, Illustration, Branding and Information Design. Students will be required to work in one or more of the disciplines to communicate their ideas.

Component 1 – Personal Investigation coursework - 60% of A Level:

Incorporates: Supporting studies, practical work and a personal study

Supporting studies and practical work will comprise a portfolio of development work and outcomes based on themes and ideas developed from personal starting points.

The personal study will be evidence through critical written communication showing contextual research and understanding in a minimum 1000 words of continuous prose, which may contain integrated images.

ART & DESIGN:

GRAPHIC COMMUNICATION

Component 2 - Externally Set Assignment - 40% of A Level:

Incorporates: Preparatory studies and the 15 hour period of sustained focus.

Preparatory studies will comprise a portfolio of practical and written development work based on the Externally Set Assignment.

15 hours timed examination to produce final outcome(s) extending from their preparatory studies in response to the Externally Set Assignment.

Final Assessment:

Students will be expected to present their work in its entirety, in the form of an exhibition for internal assessment, followed by external moderation by a representative from Pearson Edexcel.

Other Information:

The Advanced Levels in Graphic Communication offer challenging and absorbing courses for interested students. Whilst they require a high level of commitment, and can provide enrichment at a personal level and preparation for further studies or employment in the field of Graphics. For students wishing to complete the course but not anticipating a career in Design, as an A Level in Art and Design this examination has parity with other Advanced Level courses and is accepted as such at all universities and colleges.

EDEXCEL

A LEVEL

BUSINESS

AQA

AS: 7131
A LEVEL: 7132

Aims:

The course aims to develop real life skills. Students will develop the knowledge and skills needed to analyse data, think critically about issues and make informed decisions – all skills that are needed for further study and employment. The content is designed to engage students through topics and issues that are relevant in today’s society – they will study key contemporary developments such as digital technology, business ethics and globalisation.

AS Level Content:

The subject content falls into six main areas:

1. What is business?
2. Managers, leadership and decision making
3. Decision making to improve marketing
4. Decision making to improve operational performance
5. Decision making to improve financial performance
6. Decision making to improve human resource performance

Paper 1: Business 1	Paper 2: Business 2
What’s assessed Topics 1-6 above	What’s assessed Topics 1-6 above
Assessed <ul style="list-style-type: none"> • Written exam: 1 hour 30 minutes • 80 marks in total • 50% of AS 	Assessed <ul style="list-style-type: none"> • Written exam: 1 hour 30 minutes • 80 marks in total • 50% of AS
Questions Three compulsory sections: <ul style="list-style-type: none"> • Section A has 10 multiple choice questions worth 10 marks • Section B has short answer questions worth approximately 20 marks • Section C has two data response stimuli with questions worth approximately 20 marks 	Questions One compulsory case study consisting of approximately seven questions

A Level Content:

There are four additional areas covered as part of the A Level course:

7. Analysing the strategic position of a business
8. Choosing strategic direction
9. Strategic methods: how to pursue strategies
10. Managing strategic change

Paper 1: Business 1	Paper 2: Business 2	Paper 3: Business 3
What’s assessed <ul style="list-style-type: none"> • Topics 1-6 covered in AS Level • Topics 7-10 covered during the A Level 	What’s assessed <ul style="list-style-type: none"> • Topics 1-6 covered in AS Level • Topics 7-10 covered during the A Level 	What’s assessed <ul style="list-style-type: none"> • Topics 1-6 covered in AS Level • Topics 7-10 covered during the A Level
Assessed <ul style="list-style-type: none"> • Written exam: 2 hours • 100 marks in total • 33.3% of A Level 	Assessed <ul style="list-style-type: none"> • Written exam: 2 hours • 100 marks in total • 33.3% of A Level 	Assessed <ul style="list-style-type: none"> • Written exam: 2 hours • 100 marks in total • 33.3% of A Level
Questions Four compulsory sections: <ul style="list-style-type: none"> • Section A has 15 multiple choice questions worth 15 marks • Section B has short answer questions worth approximately 35 marks • Section C and D have two essay questions (choice of one from two) worth 25 marks each 	Questions Three data response compulsory questions worth approximately 33 marks each and made up of three or four part questions	Questions One compulsory case study followed by approx six questions

COMPUTER SCIENCE

AQA

AS: 7516
A LEVEL: 7517

Aims:

Computing at post-16 level is designed to introduce students to the technical knowledge and skills required to understand how effective computer systems are designed and built. This includes the construction of computer systems (hardware and software, including programming), the development of database management systems, project management skills and understanding the role of different personnel. In the new specification there is a greater emphasis on the conceptual mathematical underpinning of computation for the A Level course.

Content:

The course consists of 4 modules. Two AS modules are taken in Year 12 and students progressing to the A Level receive further teaching in Year 13 in preparation for the A Level papers.

AS Paper 1

Algorithm development and programming - this unit is assessed through an on-screen examination which will involve interpreting and coding programme code. A skeleton program is released to students before the examination. It contributes 50% of the AS Level marks.

AS Paper 2

Understanding the fundamental building blocks of computer systems, the building blocks of networks and the social and ethical issues associated with computing. A 1½ hour written paper contributes 50% to the AS Level mark.

Other Information:

Students will be generally expected to have completed a GCSE Computer Science course and achieved at least a grade 6 and must have gained at least a Grade 6 in Mathematics. Those who have not studied Computer Science to GCSE level are welcome to apply but will need to demonstrate a personal competence in programming to be considered. Computing provides an excellent preparation for students wishing to follow Computer Science courses or other courses involving technical knowledge of computing or electronics in Higher Education. The skills developed in logical thinking and systems design support many other vocational and academic development routes.

Year 13 modules incorporate the teaching material from Year 12 and add the additional content listed below to prepare for the full A Level.

A Level Paper 1

AS Paper 1 plus a deeper understanding of the database theory and practice, use of algorithmic design, the use of a wide variety of data structures and introduction to object-oriented programming. It is assessed via a 2½ hour on-screen test providing 40% of A Level marks.

A Level Paper 2

AS Paper 2 plus database theory and practice, use of functional programming with a mathematical understanding of computational theory and an understanding of the implications of the use of big data. A 2½ hour written examination contributes 40% of A Level marks.

Project

A fully documented practical programming project of the student's choice contributes 20% of A Level marks.

DESIGN TECHNOLOGY: ENGINEERING

OCR H404 (A LEVEL), H004 (AS)

Aims:

A Level Design Technology: Engineering is an inspiring, rigorous and practical subject aiming to provide a more hands-on approach to traditional engineering subjects. The A Level will build upon GCSE knowledge to enable students to solve demanding problems by designing and making practical solutions. The course will be 50% terminal exam (including an unseen challenge) and 50% non-examined assessment (NEA).

Content

Design Technology: Engineering will cover core designing and prototyping principals as well as the following specialist elements:

- System designing processes and methods
- The use of incremental innovation and of new/emerging technologies
- Visualisation and simulation including the application of CAD software
- The characteristics and working properties of materials relevant to engineering, including smart and modern materials
- Electronics including sensing, control, and output systems
- Programmable devices including how to use such devices to solve problems in system design
- Mechanical systems, gears, levers and pneumatics
- Static and dynamic forces in structures
- How to represent systems and components through the use of circuit diagrams, flowcharts and constructional diagram
- 25% of the content is mathematical based and requires a solid knowledge of Higher tier GCSE Mathematics

Other Information:

AS Level

Unit 1 – Principles of Design Engineering – External Assessment (50% of AS Level)

Unit 2 – Product Development – NEA (50% of AS Level)

A Level Units

Unit 1 – Principles of Design Engineering – External Assessment (25% of A- Level)

Unit 2 – Unseen Challenge – External Assessment (25% of A-Level)

Unit 3 – Iterative Design Project – NEA (50% of A-Level)

Students who opt to study both Design Technology and Mathematics at A Level could be eligible to apply for an Arkwright Scholarship. This scheme provides aspiring engineers with sponsorship and industrial contact to support their A Level studies.

A Level students will have the use of all department resources. This includes the 2 laser cutters, CNC router, CNC lathe and 3D printers. There is a dedicated study room for A Level DT students to use during their study periods or after school, fully equipped with PCs and electrical test equipment.

A Level DT students will have access to numerous extra-curricular activities. In the past we have been to the CAD expo 'Develop 3D Live', Alton Towers, JCB World Headquarters and New Designers. Students have exhibited their work at Surrey SATRO events and won achievement prizes over numerous years. The annual SATRO problem solving competition is also open to A Level students.

DRAMA & THEATRE

AQA

AS: 7261
A LEVEL: 7262

Aims:

The course aims to encourage students to develop their interest in and enjoyment of drama and theatre. Students will develop knowledge and understanding of the social and cultural contexts of drama and theatre, through study of set texts and theatre practitioners. Students will also develop their ability to respond critically and sensitively to theatre in performance through studying and attending a wide range of theatrical performances.

This course is suitable for students who have a good pass (Grade 5 and above) in GCSE Drama. It is also desirable for students to have a good pass in GCSE English Language. Students with a sound academic background who have not taken GCSE Drama but do have a proven interest and experience in the subject will be considered.

AS Level				
Component 1	Interpreting Drama: Evaluation of Live Theatre Interpretation of prescribed text	Open Book Written Exam	40% of AS	
Component 2	Process and Performance: Practical exploration of text	Practical exam and Portfolio	60% of AS	Students can be assessed as: <ul style="list-style-type: none"> • Performer • Lighting Designer • Sound Designer • Set Designer • Costume Designer • Puppet Designer • Director

ENGLISH LITERATURE

AQA
SPEC A

AS: 7711
A LEVEL: 7712

Aims:

We aim to provide a relevant, engaging and up-to-date syllabus that approaches the study of literature through the lens of historicism, encouraging the independent study of a range of texts within a shared context, giving logic and meaning to the way that texts are grouped for study. This approach facilitates the inclusion of a range of wider reading, thus extending students' experience and appreciation of literature. The variety of approaches to literature in the syllabus allows students to develop a wide range of skills, such as the ability to read critically, analyse, evaluate and undertake independent research which are valuable for both further study and future employment.

A Level

Paper 1 – Love through the ages

There are 3 sections in this 3 hour examination.

Section A: Shakespeare – Students will study one Shakespeare play and will respond to both a passage and linked essay question.

Section B: Unseen poetry – Students will respond to a comparative essay question on two unseen poems.

Section C: Comparing texts – Students study one poetry and one prose text (one of which must be written pre-1900) They will respond to an essay question linking these two texts together. This part of the examination is open-book.

Paper 2 – Texts in shared contexts

Students will focus on one of the following options:

Option 2A: WW1 and its aftermath

Option 2B: Modern times: literature from 1945 to the present day

Within the selected option, students will study 3 texts: one prose, one drama and one poetry, of which one must be written post – 2000.

In the 2 hour 30 minute examination, students will respond to questions on the set texts, unseen texts and linking texts.

Non-exam assessment: Independent critical study: texts across time coursework

Candidates are required to submit one extended essay (2500 words) in which they are required to make a comparative analysis of two chosen texts, at least one of which must have been written pre-1900. The texts will be selected by the students and will be connected through a theme of their choice. The spirit of this component is independent study.

AS Level

Paper 1 – Love through the ages - Shakespeare and poetry

This paper allows the student to develop their analytical skills through the close study of one Shakespeare play and one AQA anthology of love poetry through the ages (pre-1900 or post-1900) Candidates will sit a 1 hour 30 minute examination in which they will respond to propositions offered in the questions and will demonstrate their understanding of themes, language, form and structure.

Paper 2 – Love through the ages – Prose

This paper allows students to study representations of love from a variety of different authors. They will study two prose texts and compare them in a 1 hour 30 minute examination. In this examination, they will also respond to an unseen prose extract on the theme of love.

Other Information:

This course is aimed at students who have gained good passes both in GCSE English Language and English Literature (6 or higher). The course is taught in seminar form with all students making a large oral input to sessions, delivering seminar papers and sharing their views. This develops a student's ability to evaluate and discuss information in a logical and coherent way, as well as to appreciate the value of others' input. In addition to the formal course, students will have the opportunity to join theatre trips, designed to widen their experience of the Arts.

English Literature is a highly regarded A Level and provides a sound preparation for a wide range of careers requiring excellent communications skills; both oral and written.

GEOGRAPHY

EDEXCEL AS: GEOG AS
A2: GEOG A2

Aims:

This A Level Geography specification offers a wide range of contemporary units of learning which have an issues based focus and are relevant to students in the 21st century.

There is a balance between the three key disciplines in Geography; human, physical and environmental throughout the course and students will develop their knowledge, understanding and skills in preparation for higher education or employment.

AS Level:

This AS Level consists of two units of learning:

1. Dynamic Landscapes – 50% of Year 12 (8GEO/01):

Topic 1: Tectonic Processes and Hazards - Tectonic Processes, a study of the causes of tectonic hazards, the impact of tectonic activity on people, and responses to tectonic hazards.

Topic 2: Landscape Systems, Processes and Change - An integrated study of processes, landforms and landscapes. A study of one landscape system and the physical and human processes influencing change over time and space.

Choose one from:

- Option 2a: Glacial Landscapes and Change
- Option 2b: Coastal Landscapes and Change.

One day of compulsory physical geography fieldwork.

2. Dynamic Places – 50% of Year 12 (8GEO/02):

Topic 3: Globalisation - A study of globalisation, its causes and consequences for different people and places.

Topic 4: Shaping Places - A study of how and why places are shaped and changed, the meanings and identities attached to different places and the consequences for different people.

Choose one from:

- Option 4a: Regenerating Places
- Option 4b: Diverse Places.

One day of compulsory human geography fieldwork.

AS Level Assessment – Two 1 hour 45 minute examinations.

GEOGRAPHY

EDEXCEL AS: GEOG AS
A2: GEOG A2

A Level

This A Level consists of four units of learning:

1. Dynamic Landscapes
2. Dynamic Places
3. Physical Systems and Sustainability
 - Topic 5: The Water Cycle and Water Insecurity
 - Topic 6: The Carbon Cycle and Energy Security
4. Human Systems and Geopolitics:
 - Topic 7: Superpowers
 - Topic 8: Global Development and Connections
 - Option 8a: Health, Human Rights and Intervention
 - Option 8b: Migration, Identity and Sovereignty

Fieldwork and Independent Enquiry – Throughout the two year course, you will undertake four days of fieldwork in preparation for examinations and an independent enquiry. The independent report will demonstrate a student's ability to undertake independent research through fieldwork with a detailed write up and independent analysis and evaluation of data.

A Level Assessment:

Paper 1: Assessment of Dynamic Landscapes and Physical Systems and Sustainability – 30% contribution to A Level qualification.

Paper 2: Assessment of Dynamic Places and Human Systems and Geopolitics – 30% contribution to A Level qualification.

Paper 3: Synoptic investigation of a contemporary geographical issue – 20% contribution to A Level qualification.

Coursework: Students complete a 3000-4000 word report on a geographical issue of their choice – 20% contribution to A Level qualification.

Other Information:

Note on fieldwork: **In order to meet the compulsory exam board requirements, we will complete some of the fieldwork days through Field Studies Council and the cost is approximately between £50 - £100 per student.**

Geography, because of its interdisciplinary nature, links well with other subject choices. This thoroughly relevant and up-to-date course helps you to gain a fuller and deeper understanding of our ever-changing modern world as well as equipping you to take an active role in it. In Higher Education you will be able to study both single subject and applied courses in BA or BSc Geography or Estate Management, Surveying, Recreational Management and Conservation Studies.

Aims:

The course aims to develop students' interest in and enthusiasm for Government and Politics. At AS Level the focus will be on UK Politics looking at the relationship between the electorate and the government. Students will analyse the forms in which people can have an impact on politics and study how the governmental process actually works through key institutions. At A Level students will have the opportunity to specialise, analysing in depth political ideologies and global political issues.

Component 1: UK Politics and Core Political Ideas

This section explores the nature of politics and how people engage in the political process in the UK. There are four content areas in UK Politics:

1. Democracy and participation
2. Political parties
3. Electoral systems
4. Voting behaviour and the media.

At AS level the students will sit a written examination on the topics above – This will be worth 50% of the AS level

Core Political Ideas (A2 content)

This section allows students to explore the three traditional political ideas of conservatism, liberalism and socialism. There are three content areas in Core Political Ideas:

1. Liberalism
2. Conservatism
3. Socialism.

At A2 level students will sit an examination on all of the above – This will be worth 33.3% of the A-Level

Component 2: UK Government and non - Core Political Ideas

This section explores the workings and relationships of the different branches of the UK Government There are four content areas:

1. The constitution
2. Parliament
3. Prime Minister and executive
4. Relationships between the branches.

At AS level the students will sit a written examination on the topics above – This will be worth 50% of the AS level

Non-Core Political Ideas (A2 content)

This section allows students to explore one of five additional political ideas.

The five non-core political ideas to choose from are:

1. Anarchism
2. Ecologism
3. Feminism
4. Multiculturalism
5. Nationalism.

At A2 level students will sit an examination on all of the above – This will be worth 33.3% of the A-Level

Component 3: Global Politics (A2 Content)

We live in a complex world with significant challenges, including global terrorism, poverty, economic instability, weapons proliferation, failing states and environmental degradation.

Global politics gives students an opportunity to develop an understanding of the local, national, international and global dimensions of political activity. It also gives them the opportunity to explore the political issues that affect all of us. Students will gain understanding of abstract political concepts through grounding them in contemporary real-world examples and case studies that will develop an international awareness and knowledge of multiple perspectives.

There are six content areas:

1. The state and globalisation
2. Global governance: political and economic
3. Global governance: human rights and environmental
4. Power and developments
5. Regionalism and the European Union
6. Comparative theories.

At A2 level students will sit an examination on all of the above – This will be worth 33.3% of the A-Level

Aims:

The course aims to develop students' interest in and enthusiasm for History. It aims to enable students to acquire and effectively communicate knowledge and understanding of selected periods of History. Students will develop their understanding of historical terms and concepts and explore the significance of events and individuals. Students should understand the nature of historical evidence and the methods used by historians.

AS Level

This consists of two units:

Unit 1. British Period Study: The Early Stuarts and the Origins of the Civil War 1603–1660. Key topics:

- James I and Parliament
- James I and Religion
- Charles I 1625-1640
- Charles I and the victory of Parliament 1640-1646.

Enquiry Topic: The Execution of Charles I and the Interregnum 1646-1660

Unit 2. Non British Period Study: The Cold War in Europe 1941 – 1995. Key Topics:

- The Origins of the Cold War to 1945
- The Development of the Cold War 1946-1955
- The Cold War 1956-1984
- The End of the Cold War 1984-1995

AS Assessment:

Assessment: Written examinations for each topic worth 50% each of the AS qualification.

Other Information:

To do well in History you will need to show a real interest in the subject and be willing to work hard. You will be required to carry out research and background reading. A good pass at GCSE History is required (Grade 5/6), however, for students who did not study History at GCSE, a good pass in English may be acceptable. The skills developed in History can help you towards a variety of careers including Journalism, Law, Teaching, PR and Marketing, Museum work, Film and Media Research, Personnel work and Retail Management.

A Level

This consists of the two units from the AS level plus two further units.

Unit 3. Thematic Study and Historical Interpretations: Russia and its Rulers 1855–1964

- The nature of government
- The impact of dictatorial regimes on the economy and society of the Russian Empire and the USSR
- Impact of war and revolution on the development of the Russian Empire and the USSR

• Russia: Empire, nationalities and satellite states

Three Depth Studies: Alexander II's domestic reforms, The Provisional Government, Khrushchev in Power 1956 – 1964.

Unit 4. Non exam assessment: The Cold War. The Topic based essay is an independently researched essay of 3000–4000 words in length based on Unit 2 of the AS Level.

A2 Assessment:

1. Three Written examinations. One on each of the units 1-3. 80% of A Level
2. 3000-4000 word essay. Non exam assessment. 20% of A Level.

MATHEMATICS

TBC

Aims:

This course is designed to encourage students to develop their understanding of Mathematics in a way that promotes confidence and enjoyment. Students will develop their abilities to reason logically and extend their range of mathematical skills and techniques, as well as recognising how different areas of Mathematics are connected. They will learn to recognise how a situation may be represented mathematically and how to solve problems that have a “real-world” context. Students will understand how to use Mathematics as an effective form of communication and acquire the skills necessary to use calculators effectively and appropriately.

Course content:

Students starting AS or A Level Mathematics courses in September 2017 will now all study the same content. This is split into 3 broad areas of Pure Mathematics, Mechanics and Statistics.

Pure Mathematics covers the methods and techniques which form the basis of all other areas of Mathematics. Topics such as algebra, coordinate geometry, trigonometry and vectors will be extended, while new areas such as calculus are introduced. Mathematical proof will also be developed.

Mechanics is the study of objects and their response to forces acting upon them, from cars in the street, to systems of pulleys. Topics include kinematics, Newton's Laws of Motion and moments.

Statistics involves analysing data in order to reach conclusions. Statistical sampling, data presentation and probability will follow on from GCSE, and new topics include the study of special distributions such as the binomial distribution and the normal distribution.

Other information:

AS and A Level Mathematics are sought after qualifications which support the study of a wide range of other AS/A Level subjects which require logical thought, and confident numerical, graphical and statistical skills. You will need a level 7 or above at GCSE Mathematics in order to study AS or A Level Mathematics. Level 8 or above is required to study Further Mathematics and it is preferable that you have studied Additional Mathematics in Year 11.

FURTHER MATHEMATICS

In addition to Mathematics A Level, very able students may also study for a Further Mathematics AS or A Level. Further Mathematics provides an excellent opportunity for enthusiastic Mathematicians to extend and deepen their subject knowledge, and is strongly recommended for students who plan to apply for Mathematics, Engineering, Science or Technology degrees. Certain universities or courses make Further Mathematics an entry requirement – this can be investigated on the UCAS website.

Students wishing to take Further Mathematics A-Level in Year 13 will study A Level Mathematics in Year 12.

MEDIA STUDIES

TBC

At the time of writing, the new A Level Media Studies courses have not been accredited by Ofqual. This information reflects the details of the latest draft specification for the course we expect to run from September 2017. All details, including the exam board and course content, are subject to change.

Aims and Objectives.

The OCR A Level in Media Studies offers a broad, coherent and rigorous course of study and has been created to ensure that all types of learners can fulfil their potential. OCR's A Level in Media Studies will enable learners to:

- demonstrate skills of enquiry, critical thinking, decision-making and analysis
- demonstrate appreciation and critical understanding of the media and their role both historically and currently in society, culture, politics and the economy
- develop an understanding of the dynamic and changing relationships between media forms, products, media industries and audiences
- demonstrate knowledge and understanding of the global nature of the media
- apply theoretical knowledge and specialist subject specific terminology to analyse and compare media products
- engage in critical debate about academic theories used in media studies
- appreciate how theoretical understanding supports practice and practice supports theoretical understanding
- demonstrate sophisticated practical skills by providing opportunities for creative media production.

AS Level

Examination: (2 hours) 70% of AS Level

Section A: Media Industries and Audiences

Learners will engage in an overarching study of media industries, audiences and their associated contexts through media products set by OCR in a range of media forms.

Section B: Long Form Television Drama Learners will engage in one in-depth study of television as an evolving, global media form. Learners must study one complete episode of a contemporary English Language long form TV drama to inform their study. Learners must select from a list set by OCR.

Section C: News and Online Media This section consists of two linked in-depth studies that focus on contemporary news in the UK, requiring learners to explore how and why newspapers and their online counterparts are evolving as media products and the relationship between both online and offline news. Learners must select from a list set by OCR.

A Level

Examination 1: (1hr45) 32.5% of A Level

Section A: News

Learners will engage in an in-depth study of contemporary news in the UK, requiring learners to explore how and why newspapers and magazines are evolving as media products. Learners' study will be through media products set by OCR.

Section B: Media language and representation

Learners will explore media language and representation, through media products set by OCR for advertising and marketing and music video.

In addition, learners will engage in an overarching in-depth study of the online, social and participatory media forms of a range of media products.

Examination 2: (2 hours) 37.5% of A Level

Section A: Media industries and audiences

Learners will explore media industries and audiences, through media products set by OCR for radio, video games and film

Section B: Long form television drama

Learners will engage in an in-depth study of television as an evolving, global media form. Learners must select two specified media products from lists set by OCR.

In addition, learners will engage in an overarching in-depth study of the online, social and participatory media forms of a range of media products.

Non examined unit: 30% of A Level

Learners will create a cross-media product in response to an OCR set brief.

MODERN FOREIGN LANGUAGES

EDEXCEL

A2
FR: 9FR0
GE: 9GN0
SP: 9SP0

AS
FR: 8FR0
GE: 9GN0
SP: 9SP0

Aims:

- Enhance their linguistic skills and promote and develop their capacity for critical thinking on the basis of their knowledge and understanding of the language, culture and society of the country or countries where the language is spoken
- Develop control of the language system to convey meaning, using spoken and written skills, including an extended range of vocabulary, for both practical and intellectual purposes as increasingly confident, accurate and independent users of the language
- Develop their ability to interact effectively with users of the language in speech and in writing, including through online media
- Develop language learning skills and strategies, including communication strategies to sustain communication and build fluency and confidence
- Engage critically with intellectually stimulating texts, films and other materials in the original language, developing an appreciation of sophisticated and creative uses of the language and understanding them within their cultural and social context
- Develop knowledge about matters central to the society and culture, past and present, of the country or countries where the language is spoken
- Mediate between cultures and between speakers of the language and speakers of English

AS Level

	French 9FR0	German 9GN0	Spanish 9SP0
Social issues and trends in the target language country	Changing family and structure Education The world of work	Natural living Education The world of work	Changing family and structure Impact of tourism The world of work
Political, intellectual and artistic culture in the wider target language speaking world	Music Media Festivals and tradition	Music Media Festivals and tradition	Music Media Festivals and tradition

A2 Level

	French 9FR0	German 9GN0	Spanish 9SP0
Social issues and trends in the target language country	Immigration and the multicultural society	Immigration and the multicultural society	Immigration and the multicultural society
Political, intellectual and artistic culture in the wider target language speaking world	The Occupation and Resistance	German reunification	The Franco dictatorship and the transition to democracy

MUSIC

AQA

AS: 7271
A LEVEL: 7272

Aims:

The course is aimed at students who have taken Music at GCSE level, can read music (traditional notation) fluently and who play a musical instrument at a high standard. As a guide, students opting for an A Level in Music should be working at or above Grade 5 standard (or equivalent) on at least one instrument and should have passed Grade 5 theory. The syllabus encourages students to study a wide range of musical styles whilst focusing on the development of practical, analytical and compositional skills to an advanced level.

AS Level Content:

There are three different components of study at AS Level.

Component 1

Appraising Music (40% of AS Level) Written exam Listening, analysis and essay questions in a 2 hour exam

Component 2

Performance (30% of AS Level) Externally Marked A 6 minute performance recorded in one take

Component 3

Composition (30% of AS Level) Externally marked coursework Two compositions (one to a set brief and one free) lasting a combined minimum of four and a half minutes.

A Level Content:

There are three different components of study at A Level.

Component 1

Appraising Music (40% of A Level) Written Exam Listening, analysis and essay questions in a 2 hour 30 minute exam

Component 2

Performance (35% of A Level) Externally marked coursework A 10 minute performance recorded in one take

Component 3

Composition (25% of A Level) Externally marked coursework Two compositions (one to a set brief and one free) lasting a combined minimum of four and a half minutes

Other Information:

AS/ A Level Music can lead to further study in Music or Performing Arts in Higher Education or may lead to a career in some areas of the music industry. Alternatively, AS/ A Level Music can help provide a balanced curriculum, helping students develop their musical skills and providing a good mixture between academic study and practical creativity.

PHYSICAL EDUCATION

OCR

AS: H155
A LEVEL: H555

Aims:

To open up the world of sport. To encourage students to immerse themselves in the world of sports and PE with the chance to perform or coach a sport (through the non-exam assessment component), and delve into the how and why of physical activity and sport.

Students receive a well-rounded and full introduction to the world of PE, sport and sports science. This complete grounding in the subject provides a fantastic base from which to build when they move on to higher education, employment or further training.

AS: H155

Component 1 – Physiological Factors Affecting Performance (35%)

- Anatomy & Physiology
- Exercise Physiology
- Biomechanics

Component 2 – Psychological and Socio Cultural Themes in Physical Education (35%)

- Skill Acquisition
- Sports Psychology
- Sport & Society

Component 3 – Performance within Physical Education

- 60 marks – 30% of AS mark

Two 1.5 hour exams – 70% of AS mark

Assessments:

Candidates are assessed in ONE chosen activity, from the approved list, in conditioned competitive conditions. Candidates will generate and keep a log of competitive participation throughout the duration of the course.

Candidates will also give an oral response, using technical language, after observing a live performance of another candidate.

To join this course, students will be expected to gain at least Grade B at GCSE PE and B grades in Biology and play at least one sport at a competitive level. Students who have not studied PE at GCSE will be required to achieve at least B in biology and play at least one sport at a competitive level.

A Level: H555

Component 1 – Physiological Factors Affecting Performance (30%)

- Anatomy and Physiology
- Exercise Physiology
- Biomechanics

Component 2 – Psychological Factors Affecting Performance (20%)

- Skill Acquisition
- Sports Psychology

Component 3 – Socio Cultural and Contemporary Issues (20%)

- Sport, Society and Technological Influences

Component 4 – Performance within Physical Education

- 60 marks – 30% of A Level mark

Three exams – one 2 hour and two 1 hour – 70% of A Level mark

PSYCHOLOGY

Aims:

1. To study human behaviour and experience in a scientific, systematic way.
2. To understand the processes, motives, reactions and nature in the human mind.
3. To gain fundamental and lasting insights into human behaviour.

AS Level/Year 1

Unit 1 Social Influence, Memory and Attachment

Students will study the psychology of social influence, memory and early attachment. They will learn about the research studies involved and undertake practical activities.

Unit 2: Approaches in psychology, Psychopathology and Research Methods

Students will learn about the various approaches and applications taken in Psychology including the behaviourist, cognitive and biological models. In psychopathology they will additionally learn about various disorders such as OCD, depression and anxiety, looking at different psychological approaches to define and treat. They will also be taught an understanding of how research is carried out in Psychology.

A-Level

Unit 3: Biopsychology

Students will study the nervous system and its structure, looking at innate human reactions such as the fight or flight response. They will also explore eye-opening ways of studying the brain and biological rhythms such as the sleep/wake cycle.

Unit 4 Issues and debates in Psychology: Relationships, Schizophrenia and Aggression.

This unit allows students to study fascinating topics such as relationship formation, maintenance and dissolution as well as explanations of human aggression and possible causes of and treatment for schizophrenia.

Assessments:

AS Assessment Units

Paper 1: Introductory Topics in Psychology Social influence, memory and attachment	How is it assessed? • Written exam: 1 hour 30 minutes • 72 marks in total • 50% of AS level
Paper 2: Psychology in Context Approaches in psychology, psychopathology and research methods	How is it assessed? • Written exam: 1 hour 30 minutes • 72 marks in total • 50% of AS level

AQA

AS: 7181
A LEVEL: 7182

A-Level Assessment Units

Paper 1: Introductory Topics in Psychology Social influence, memory, attachment and psychopathology	How is it assessed? • Written exam: 2 hours • 96 marks in total • 33.3% of A-level
Paper 2: Psychology in Context Approaches in psychology, biopsychology and research methods	How is it assessed? • Written exam: 2 hours • 96 marks in total • 33.3% of A-level
Paper 3: Issues and Options in Psychology Issues and debates in psychology, relationships, stress and forensic psychology	How is it assessed? • Written exam: 2 hours • 96 marks in total • 33.3% of A-level

Other Information:

Psychology is a fully taught AS and A Level course. The department has a growing library of resources, including fascinating videos and a wide range of student activity booklets. Psychology combines very well with many other AS and A-Level subjects and is highly regarded by Universities and employers alike. Psychology students develop the transferable skills that all employers require, such as communication, numeracy, independent learning and the ability to work in teams. Medicine, psychotherapy, counselling, advertising, marketing, retail, police; the list of careers open to Psychology students is mind-boggling. Students will need at least Grade 6 in English, Maths and Science. Students without these requirements are very occasionally given special consideration but must apply individually to the Head of Psychology and provide alternative evidence of higher level thinking skills, an enquiring mind and good oral and written communication skills.

RELIGIOUS STUDIES

(PHILOSOPHY AND ETHICS)

EDEXCEL

A2 A LEVEL: 9RS0
AS A LEVEL: 8RS0

Aims:

The course is designed to encourage an interest and enthusiasm for a rigorous study of philosophy, ethics and Christianity. It will enable students to develop an insight into areas of knowledge, belief and thought central to an understanding of the modern world. Through a study of philosophy and ethics, students will gain a knowledge of skills that will help make sense of contemporary events.

Philosophy

This is the study of reality and existence. In this unit students will discuss the following types of philosophical key questions - Is there a God? Can we prove it? Should we prove it? How do people keep faith in the face of suffering? Do miracles exist? Are they proof of God's existence?

Philosophy content (topics include)

- The design argument
- The cosmological argument
- The problem of evil and suffering
- Life after death
- Language games
- Theodicies and solutions
- Critiques of religious belief

Ethics

This is the philosophical study of good and bad, right and wrong (also known as 'morality'). Ethics also requires students to examine contemporary moral issues such as conflict, homosexuality, and genetic engineering.

Ethics content (topics include)

- Environmental issues
- Equality/inequality
- Situation ethics
- War and peace
- Pacifism
- Sexual ethics
- Medical ethics

Christianity

This is the study of Christian beliefs about the qualities of God, an examination of teachings and the application of these beliefs in the modern world.

Christianity content (topics include)

- The nature of God
- The Trinity
- Key moral principles
- The teachings of Jesus
- Christian responses to science and secularism
- Equality
- Discrimination

Subject assessment

Students will take three 2 hour written exams at the end of the course (two years), one exam each for the philosophy, ethics and Christianity units. Each of these exams will be worth one third of the final grade.

SCIENCE - BIOLOGY

AQA

AS: 7401
A2: 7402

Aims:

To develop interest, understanding and enjoyment of this fabulous subject. To build on skills learned at GCSE and to further essential knowledge and understanding of the different areas of Biology. Most importantly, relating these different areas to each other and to other subjects. To lay a secure foundation for those wishing to continue this or other science subjects after A levels.

YEAR 1 CONTENT

Topic 1 Biological molecules – carbohydrates; lipids; proteins; nucleic acids; water; inorganic ions.

Topic 2 Cells – eukaryotic cells; prokaryotic cells and viruses; studying cells; cell cycle; transport across membranes; immune system.

Topic 3 Organisms exchange substances with their environment – gas exchange; digestion and absorption; mass transport in animals; mass transport in plants.

Topic 4 Genetic information, variation and relationships between organisms – DNA, genes and chromosomes; DNA and protein synthesis; mutation and meiosis; genetic diversity and adaptation; species and taxonomy; biodiversity

YEAR 2

Topic 5 Energy transfers in and between organisms – photosynthesis; respiration; energy and ecosystems; nutrient cycles.

Topic 6 Organisms respond to changes in their internal and external environments – survival and response; receptors; control of heart rate; nerve impulses and synaptic transmission; muscles contraction; homeostasis and negative feedback; control of blood glucose; control of blood water potential.

Topic 7 Genetics, populations, evolution and ecosystems – inheritance; populations; evolution may lead to speciation; populations in ecosystems.

Topic 8 Control of gene expression – gene mutations; control of gene expression and cancer; using genome projects; recombinant DNA technology; genetic fingerprinting.

In addition student's will be continually assessed on their practical skills and competency through required practical activities. At the end of the full A level course students will be passed or failed on their practical competency. At least 15 of the marks in the exams will be based on skills developed during the required activities.

SCIENCE - BIOLOGY

AQA

AS: 7401
A2: 7402

AS level assessment (7401)

Assessment Content	Assessment Overview	Assessment Weighting
Both papers will assess content from topics 1-4, including relevant practical skills.	Paper 1 75 marks 1 hour 30 mins written paper	50%
	Paper 2 75 marks 1 hour 30 mins written paper	50%

A level assessment (7402)

Assessment Content	Assessment Overview	Assessment Weighting
Paper 1 Any content from topics 1-4, including relevant practical skills	Paper 1 91 marks 2 hour written paper	35%
Paper 2 Any content from topics 5-8, including relevant practical skills	Paper 2 91 marks 2 hour written paper	35%
Paper 3 Any content from topics 1-8, including relevant practical skills	Paper 3 78 marks 2 hour written paper	30%
	Practical Endorsement in Biology Non-exam assessment	Reported separately

Other Information:

Students need to have either

- A minimum Grade 6 in GCSE Biology
- A minimum Grade 6 in GCSE combined science where the Biology component is also a minimum Grade 6.

In addition, students need a 6 in mathematics.

SCIENCE - CHEMISTRY

OCR
SPEC B

AS: HO33
A LEVEL: H433

Aims:

To develop interest, understanding and enjoyment of this fabulous subject. To build on skills learned at GCSE and to further essential knowledge and understanding of the different areas of Chemistry. Most importantly, relating these different areas to each other and to other subjects. To lay a secure foundation for those wishing to continue this or other science subjects after A levels.

YEAR 1 CONTENT

Unit 1 Elements of Life – atomic structure; equations and moles; periodic table

Unit 2 Developing Fuels – hydrocarbons; fuels; thermochemistry; energy cycles; atmospheric pollution; electrophilic addition reactions

Unit 3 Elements from the Sea – halogens; redox reactions; equilibria

Unit 4 The Ozone Story – intermolecular forces; enthalpy profile diagrams; catalysts; gas calculations; haloalkanes; nucleophilic substitution; radicals; radical substitution; energy and matter

Unit 5 What's in a Medicine – organic functional groups; reactions of phenols; alcohols; practical techniques for making, extracting purifying and identifying an organic compound; principles of green chemistry; mass spectrometry; IR spectroscopy

Other Information:

Students need to have either:

- A minimum Grade 6 in Chemistry
- A minimum Grade 6 in Additional Science where the Chemistry component is also a minimum Grade 6.

In addition, students need a Grade 6 in Mathematics

YEAR 2 CONTENT

Unit 6 The Chemical Industry – rate equations; reaction kinetics; equilibrium; nitrogen chemistry; industrial processes

Unit 7 Polymers and Life – amino acids; proteins; DND and RNA; reaction kinetics and enzymes; further organic functional groups; hydrolysis of esters and amides; polymers; optical isomerism; NRP spectroscopy

Unit 8 The Oceans – solubility; enthalpy cycles; entropy; acids and bases; pH calculations; buffers; the greenhouse effect

Unit 9 Developing Metals – transition metals; ligands and complexes; redox half equations; electrochemical cells; colorimetry

Unit 10 Colour by Design – bonding in dyes; fats and oils; aromatic compounds; electrophilic substitution; aldehydes and ketones; nucleophilic addition; gas-liquid chromatography

SCIENCE - CHEMISTRY

OCR
SPEC B : HO33
LEVEL: H433

AS level assessment (H033)

Assessment Content	Assessment Overview	
<ul style="list-style-type: none"> • Elements of life • Developing fuels • Elements from the sea • The ozone story • What's in a medicine? 	Paper 1 75 Marks 1 hour 30 mins written paper	50%
	Paper 2 75 Mark 1 hour 30 minutes written	50%

A level assessment (H433)

Content Overview	Assessment Overview	
<ul style="list-style-type: none"> • Elements of life • Developing fuels • Elements from the sea • The ozone story • What's in a medicine? • The chemical industry • Polymers and life • Oceans • Developing metals • Colour by design 	Fundamentals of Chemistry 110 marks 2 hour 15 mins written paper	41%
	Scientific Literacy in Chemistry 100 marks 2 hour 15 mins written paper	37%
	Practical Skills in Chemistry 60 marks 1 hour 30 mins written paper	22%
	Practical Endorsement in Chemistry Non-exam assessment	Reported seperately

Other Information:

Students need to have either

- A minimum level 6 in Chemistry
- A minimum level 6 in Additional Science where the Chemistry component is also a minimum level 6.

In addition, students need a level 6 in mathematics

SCIENCE - PHYSICS

AQA

AS: 7407
A LEVEL: 7408

AQA 7407/7408

Aim: To introduce students to new and exciting areas of Physics and to develop the more classical concepts of forces, energy, particles and waves. The course lays a solid foundation for those who want to study Physics or Engineering disciplines at university.

AS Level Content

The course includes a large amount of experimental work spread over all of the topics.

- | | |
|----------------------------|---|
| 1. Measurement and Errors | Physics as an experimental science. |
| 2. Particles and Radiation | The structure of the universe, from quarks to the LHC. |
| 3. Waves | From musical instruments to tsunamis. |
| 4. Mechanics and Materials | Study of material properties, forces and their effects. |
| 5. Electricity | Circuits, electrical power and plenty of experiments. |

A Level Content

This includes core material and a number of option topics. The department will offer the optional topics based on student demand and staff availability.

- | | |
|--------------------------|---|
| 6. 6.1 Further Mechanics | Circular motion and Simple Harmonic Motion. |
| 6. 6.2 Thermal Physics | The study of Ideal Gases and the properties of heat energy. |
| 7. Field Theory | Gravitational, magnetic and electric fields. |
| 8. Nuclear Physics | Or how to build a nuclear power station... |

Options (students take 1):

Astrophysics
Medical Physics
Engineering Physics
Turning Points (key events in the history of Physics)

SCIENCE - PHYSICS

AQA

AS: 7407
A LEVEL: 7408

SOCIOLOGY

OCR

AS: H180
A LEVEL: H580

Assessment

AS Level (Y12) Assessment

Assessment Content	Assessment Overview	
<ul style="list-style-type: none"> Elements of life Developing fuels Elements from the sea The ozone story What's in a medicine? 	Paper 1 A mix of short and long answer questions	50%
	Paper 2 A mix of short and long answer questions and 30 multiple choice questions	50%

A Level (Y13) Assessment

Assessment Content	Assessment Overview	Assessment Weighting
Paper 1 Any content from topics 1-5 and 6.1	Paper 1 85 marks 2 hour written paper	34%
Paper 2 Any content from topics 6.2-8, but assuming knowledge of 1- 5 and 6.1	Paper 2 85 marks 2 hour written paper	34%
Paper 3 Practical Skills and Data Analysis Option Topic	Paper 3 80 marks 2 hour written paper	32%

Other Information

Students require a minimum of a grade 6 in GCSE Mathematics and either:
 a) Grade 6 in GCSE Physics, or
 b) Grade 6 in Additional Science, where the Physics component is also at least a grade 6.

Physics is a rigorous subject that is very satisfying – with the right skills A/A* grades are very achievable. It is especially important that the skills of algebra and trigonometry from Mathematics are strong.

Aims:

To focus on Sociology's key themes – Socialisation, Culture, Identity, Power, Crime and Deviance, Control and Inequality. To focus on contemporary Society and the Globalised World. To understand sociological evidence and research methodology.

AS Level

Component 1: Socialisation, Culture and Identity
 Introducing socialisation, culture and identity and Families and Relationships
 Compulsory questions, some based on stimulus material
 Assessment is through one 90 minute examination

Component 2: Researching and Understanding social inequalities
 Research methods and researching social inequalities
 Compulsory questions, some based on qualitative and quantitative sources
 Understanding social inequalities
 Assessment is through one 90 minute examination

Other Information:

Sociology combines very well with Geography, History, Media Studies, and Psychology. It is a study that would enhance the learning of all students with its focus on current social issues.

A Level

Component 1 (30% of A Level)
 Component 2 (35% of A level)
 Component 3 (35% of A level)
 Debates in contemporary society (35% of A Level)

Section A: Globalisation and the Digital Social World
 This section investigates the relationship between globalisation and digital forms of communication. It also explores the impact of digital forms of communication in a global context.

Section B: Crime and Deviance
 This section focuses on debates in contemporary society through a detailed study of crime and deviance. The social construction of crime and deviance are considered and the ways in which crime is socially distributed, explained and reduced. This option introduces a global dimension, with reference to patterns and trends. It aims to give an understanding of different theoretical approaches to the study of crime and deviance.

Assessment is through one 2 hour 15 minute examination



For more information on all of the AS and A Level courses we offer, as well as Exam Board specifications and websites, please scan the above QR code with your mobile device.



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