

SIEPUPIO SIXTHFORM



Hitthe ground running





CONTENTS

Art	4-5
Biology	6-7
Business - Cambridge Technical	8-9
Business Studies	10-11
Chemistry	12-13
Computing Science	14-15
Economics	16-17
English - Language & Literature	18-19
English - Literature	20-21
Fashion & Textile Design	22-23
Food Science & Nutrition	24-25
French	26-27
Geography	28
German	30-31
Health & Social Care	32-33
History	34-35
Maths	36
Further Maths	37
Mathematical Studies	38
Media Studies	40-41
Photography	42-43
Physics	44-45
Product Design	46-47
Psychology	48-49
Religious Studies	50-51
Spanish	52-53
Sociology	54-55
Sport - Cambridge Technical	56-57
Theatre Studies	58-59

COURSE DETAILS

Personal Investigation

This is a practical investigation supported by written material.

Students are required to conduct a practical investigation, into an idea, issue, concept or theme, supported by written material. The focus of the investigation must be identified independently by the student and must lead to a finished outcome or a series of related finished outcomes.

The investigation should be a coherent, indepth study that demonstrates the student's ability to construct and develop a sustained line of reasoning from an initial starting point to a final realisation.

The investigation must show clear development from initial intentions to the final outcome or outcomes.

It must include evidence of the student's ability to research and develop ideas and relate their work in meaningful ways to relevant critical/ contextual materials.

The investigation must be informed by an aspect of contemporary or past practice of artists, photographers, designers or craftspeople.

ASSESSMENT

UNIT 1 (60%) UNIT 2 (40%) Prep Evidence & 15hrs Supervised



Externally Set Assignment

Separate question papers will be provided for each title. Each question paper will consist of a choice of eight questions to be used as starting points. Students are required to select one. Students will be provided with examination papers on 1 February, or as soon as possible after that date.

Preparatory Period

Following receipt of the paper students should consider the starting points and select one. Preparatory work should be presented in any suitable format, such as mounted sheets, design sheets, sketchbooks, workbooks, journals, models and maquettes.

Supervised Time

Following the preparatory period, students must complete 15 hours of unaided, supervised time.

In the 15 hours students must produce a finished outcome or a series of related finished outcomes, informed by their preparatory work.

LINK TO THE SPECIFICATION

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See a detailed document of what we will cover in this course:

https://filestore.aqa.org.uk/resources/art-and-design/specifications/AQA-ART-SP-2015.PDF A students' own guide: www.youtube.com/watch?v=jhnAURA6n9I





Wider Reading

- The Story of Art Ernst Gombrich
- The Shock of the New Robert Hughes

FILM & TV



(Documentaries Available Online)

- The Secret of Drawing
- The Genius of Photography
- The Private Life of a Masterpiece
- Simon Schama the Power of Art
- Civilisation
- Netflix
- McQueen
- Abstract The Art of Design
- Enter the Anime
- Struggle the Life and Lost Art of Szukalski

YOUTUBE



The Art Assignment Ahmed Aldoori Tutvid Lucidpixul



USEFUL RESOURCE LINKS

The Student Art Guide www.studentartguide.com

The best website for Art students! Full of ideas, advice and examples of great student Art!

Pinterest www.pinterest.com

Type in a topic and it will generate loads of images around that theme

Artist A Day www.artistaday.com

A great resource for finding new /contemporary artists

But Does It Float www.butdoesitfloat.com

Mind blowing art, updated every day

Boooooom www.boooooom.com

Great illustartion and graphic design

Tumblr www.tumblr.com

A bit like Pinterest. Type in a subject and see what comes up

The Guardian www.guardian.co.uk

Great resource for current affairs, politics, society, culture

Colossal www.thisiscolossal.com/ - Art, design and visual culture



Biology

COURSE DETAILS

Development of Practical Skills

This relates to the practical skills learners are expected to gain throughout the course, which are assessed throughout the written examinations and also through the Practical Endorsement.

Students will be given the opportunity to demonstrate their practical competence in at least 12 practical activities.

Foundations in Biology

- Basic components of living things cells and microscopy
- Biomolecules
- Enzymes
- Plasma membranes
- Cell divisions and stem cells

Exchange & Transport

- Exchange surfaces and breathing
- Transport in animals
- Transport in plants

EXAMS

Processes (37%) - 2hr15min Diversity (37%) - 2hr15min

Unified (26%) - 1hr30min

+ Non Exam Practical Assessment



Biodiversity, Evolution & Disease

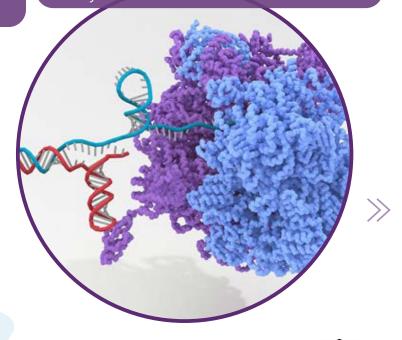
- Classification and evolution
- Biodiversity

Communication, Homeostasis & Energy

- Neuronal communication
- Hormonal communication
- Homeostasis
- Plant responses
- Photosynthesis

Genetics, Evolution & Ecosystems

- Genetics and living systems
- Patterns of inheritance and variation
- Manipulating genomes
- Cloning and Biotechnology
- Ecosystems



LINK TO THE SPECIFICATION

See a detailed document of what we will cover in this course: www.ocr.org.uk/Images/171736-specification-accredited-a-level-gce-biology-a-h420.pdf





Wider Reading

- We recommend you read through this transition book and try all the activities before starting A level Biology. CGP Head Start to Biology: amazon.co.uk/Head-Start-level-Biology-Level/dp/1782942793
- Miller, J and Van Loon, B (2012). Introducing Darwin. Pub. Icon Books Ltd
- Jones S and Van Loon B, (2012). Introducing Genetics. Icon Books Ltd

BOOKS

A Brief History of Everyone Who Ever Lived – The Stories in our Genes. Rutherford A.

The Selfish Gene. Dawkin R.

Why don't penguins' feet freeze? /

Does anything eat wasps?

New Scientist books

FILM & TV



Gattaca Splice

The Boys from Osmosis Jones
Brazil Contagion
Blueprint Pain, pus, poison

PODCASTS



Ologies with Alie Ward

Science Vs

The Curious Cases of Rutherford and Fry

New Scientist Weekly The Life Scientific

This Podcast Will Kill You

USEFUL RESOURCE LINKS



A level Biology revision notes, powerpoints, mind maps, question booklets and mark

schemes: alevelbiology.co.uk/

Primrose Kitten A level Biology: https://primrosekitten.org/a-level-biology/BioNinja: https://ib.bioninja.com.au/additional-resources-2/summary-pdfs.html

Biology Dictionary: https://biologydictionary.net/

A level Biology revision: https://senecalearning.com/en-GB/blog/a-level-biology-revision/

Khan Academy: For content and wider reading www.khanacademy.org/





BUSINESS C-Tech

COURSE DETAILS

The Business Environment

Develop an understanding of how businesses operate and for what purpose;

- Structures, Ownership
- Business objectives
- Business functions within business
- The legal financial, ethical and resource constraints businesses face
- How businesses respond to changes in their economic, social and technological environment, and the necessity for a business to plan.

Working in business

- Understanding the need to work effectively within a business environment.
- Arranging meetings, working with business documents, making payments, prioritizing business activities and communicating with stakeholders.
- How these activities apply to specific business protocols in place or their general use and transferable skills.



Customers & Communication

- Purpose, methods and importance of communication in business
- Appropriateness of different forms of communication for different situations.
- Develop the skills for creating a rapport with customers
- Practice and develop your business communication skills
- Legal constraints, ethical and security issues that affect how businesses store, share and use information.

Principles of Project Management (Coursework)

 Understanding the purpose of project management.

(Examples of business projects are running an event, launching and marketing)

- Preparing and managing the project
- Stages of project management
- Necessery project managing skills
- Monitoring progress
- Effectively plan and execute the project.



EXAMS

Unit 1 2hr Unit 2 1hr30min

LINK TO THE SPECIFICATION





Responsible business practices (coursework)

- In this unit you will learn how Businesses behave responsibly whilst they are producing and selling goods and services. By this we mean how a business manages its activities to produce a positive impact on society.
- You will look at and review the impact of different stakeholders on business decisions and how the issues involved can at times be contradictory and difficult to address.
- You will have the opportunity to explore the social implications of business ethics and corporate responsibilities on a wide range of business activities. This will include topical issues such as whistle blowing, employment practices such as zero-hours contracts, advertising to children, environmental awareness and the use of new technologies.

Work you can do to prepare for A Level study

For Business Cambridge Technical students are required to complete a Summer Prep Task. Click here to access the booklet.

EQUIPMENT ready for first lesson

1 large ring binder folder or 2 x smaller A4 folders1x writing pad1x 10 pack of folder divider

BOOKS



Any entrepreneur's autobiography (Alan Sugar for example) Black Box Thinking by Matthew Syed

FILM & TV



Wall Street
The Big Short
The Founder
The Social Network
Inside the factory – BBC Iplayer
Coldfusion - Youtube channel

USEFUL RESOURCE LINKS

www.beebusinessbee.co.uk https://techcrunch.com www.theguardian.com/uk/business





Business Studies

COURSE DETAILS

Theme 1: Marketing and people

Students will develop an understanding of:

- meeting customer needs
- the market
- marketing mix and strategy
- managing people
- entrepreneurs and leaders.

Theme 2: Managing business activities

Students will develop an understanding of:

- raising finance
- financial planning
- managing finance
- resource management
- external influences.



Theme 3: Business decisions and strategy

This theme develops the concepts introduced in Theme 2. Students will develop an understanding of:

- business objectives and strategy
- business growth
- decision-making techniques
- influences on business decisions
- assessing competitiveness
- managing change.

Theme 4: Global business

This theme develops the concepts introduced in Theme 1. Students will develop an understanding of:

- globalisation
- global markets and business expansion
- global marketing
- global industries and companies (multinational corporations).

EXAMS: 2hrs Each

Paper 1: Marketing, people and global businesses (covers themes 1 and 4)

Paper 2: Business activities, decisions and

strategy (covers theme 2 and 3)

Paper 3: Investigating business in a competitive environment (assesses knowledge over all four themes)









For A Level Business Studies students are required to complete a Summer Prep Task. Click here to access the booklet

EQUIPMENT ready for first lesson

1 large ring binder folder or 2 x smaller A4 folders 1x writing pad 1x 10 pack of folder divider

BOOKS



Any entrepreneur's autobiography (Alan Sugar for example) Black Box Thinking by Matthew Syed

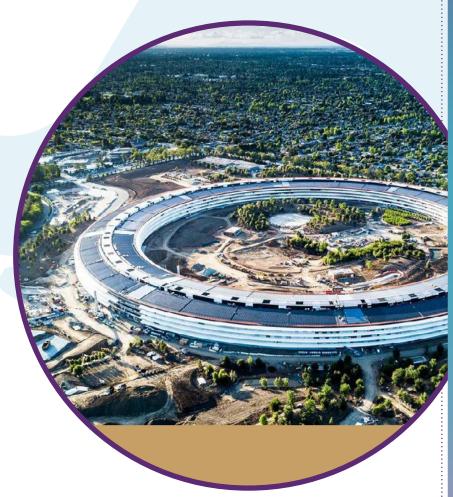
FILM & TV



Wall Street The Big Short The Founder The Social Network Inside the factory – BBC Iplayer Coldfusion - Youtube channel

USEFUL RESOURCE LINKS







chemistry

COURSE DETAILS

Development of Practical Skills

This module covers the practical skills that students will develop throughout the course.

The practical skills in this module can be assessed within written examinations.

Students will demonstrate their practical competence in 12 practical assessments. **Core Organic Chemistry &**

Basic concepts

Analysis

- Hydrocarbons
- Alcohols and haloalkanes
- Organic synthesis

Foundations in Chemistry

- Atoms, compounds, molecules and equations
- Amount of substance (mole calculations)
- Acid-base and redox reactions
- Electrons, bonding and structure.

Periodic Table & Energy

- The periodic table and periodicity
- Group 2 and the halogens
- Qualitative analysis
- Enthalpy changes
- Reaction rates and equilibrium (qualitative)

Physical Chemistry and Transition Elements

- Reaction rates and equilibrium (quantitative)
- pH and buffers
- Enthalpy, entropy and free energy
- Redox and electrode potentials
- Transition elements.

Organic Chemistry and Analysis

- Aromatic compounds
- Carbonyl compounds
- Carboxylic acids and ester
- Nitrogen compounds
- Polymers
- Organic synthesis
- Chromatography and spectroscopy (NMR)

EXAMS

2h 15 min Inorganic and physical 2h 15 min Organic 1h 30 min Unified



LINK TO THE SPECIFICATION



See a detailed document of what we will cover in this course: https://tinyurl.com/yv5ad95b



Wider Reading

We recommend you read through this transition book and try all the activities before starting A level Chemistry CGP Head Start to Chemistry.

YOUTUBE



Veritasium The Royal Institution
ASAPscience Reel Truth Science
SixtySymbols Steve Mould
TedEd Smarter Everyday

BOOKS



The Disappearing Spoon – Sam Kean Bad Science – Ben Goldacre Periodic Tales – Hugh Aldersley-Williams

FILM & TV



Chemistry - A Volatile History BBC Tv, Professor Jim Al-Kalili

PODCASTS



Ologies with Alie Ward
Science Vs
The Curious Cases of Rutherford and Fry
New Scientist Weekly
The Life Scientific
This Podcast Will Kill You

USEFUL RESOURCE LINKS

The Infinite Monkey Cage



Primrose Kitten A level Chemistry: https://primrosekitten.org/a-level-chemistry/

Chemguide: www.chemguide.co.uk/

Crash Course Chemistry: https://tinyurl.com/44yhkass







Computing

COURSE DETAILS

A Level Computing

The key features of A Level Computing Science are to encourage:

- Emphasis on problem solving using computers
- Emphasis on computer programming and algorithms
- Emphasis on the mathematical skills used to express computational laws and processes, e.g. Boolean algebra/logic and comparison of the complexity of algorithms

Computer Systems

Students learn about:

- Components of a computer and their uses (e.g., CPU, input/output devices, storage).
- Types of Software and the development of software.
- Software and Operating Systems.
- Exchanging Data (networking, data transmission).

EXAMS

Unit 1 - Computer Systems (Non-calc) 2hr30min

Unit 2 – Algorithms and Programming (Non-calc)





Algorithms and Programming

Students learn about:

- Elements of Computational Thinking.
- Problem Solving and Programming Techniques.
- Algorithms and how they can be used to describe and solve problems.
- The exam also includes questions related to programming skills and understanding algorithms.

Programming Project (NEA)

Worth 20% of the A-Level. You will choose a project to design, develop, and test a solution to a problem. This is a practical application of the programming and problem-solving skills you have gained during the course. The NEA involves:

- Analysis of the Problem.
- Design of the Solution.
- Development of the Solution using a programming language.
- Testing and Evaluation







During the course we will use examples of the leading Computer Hardware, Software (including AI large language learning models) as well as Networking Companies. We will evaluate and discuss the work of companies such as such as Palantir, Nvidia, Microsoft, Cisco, Meta, Google, Amazon, Apple and many more!

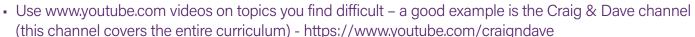
It is recommended you research the big names and consider advancements in AI, large language learning models/neural networks as well as ChatGTP. Consider how Nvidia GPU semiconductors are driving the market. Consider how autonomous technology and robotics are set to impact on and change what we do. How Google and IBM are leading the way with Quantum Computing carrying out complex computations in minutes that would take classical supercomputers 10 septillion years to complete!

- Palantir Alex Karp
- NVidia Jenson Huang
- Google Sundar Pichai



RESOURCE LINKS

- A Level Computing Science revision guide
- Craig n Dave https://craigndave.org/ocr-a-level-h046-h446-videos/
- Educa8 https://educa8.co.uk



- Use your Y12 & 13 'Very Important Notes' (VINs) for revision
- Use OCR A-Level Computer Science Revision PMT (physicsandmathstutor.com) for revision content and past papers Use Gojimo (a free app for phones) to test yourself
- Use OCR reference language interpreter (examreferencelanguage.co.uk) to practice writing pseudocode and reference language
- Use https://quizlet.com/login to test yourself on content
- Use https://create.kahoot.it/login to test yourself on content
- Revise the meanings of the keywords in the specification





Economics

COURSE DETAILS

Theme 1: Introduction to markets and market failure

Students will cover a range of topics which include:

- 1.1 Nature of economics
- 1.2 How markets work
- 1.3 Market failure
- 1.4 Government intervention

Theme 2 The UK economy – performance and policies

Students focus on reviewing the below topic areas:

- 2.1 Measures of economic performance
- 2.2 Aggregate demand
- 2.3 Aggregate supply
- 2.4 National income
- 2.5 Economic growth
- 2.6 Macroeconomic objectives and policy

Theme 3: Business behaviour and the labour market

Students will focus on the following concepts

- 3.1 Business growth
- 3.2 Business objectives
- 3.3 Revenues, costs and profit
- 3.4 Market structures
- 3.5 Labour market
- 3.6 Government intervention



Theme 4: A global perspective

Students will cover a range of topic areas:

- 4.1 International economics
- 4.2 Poverty and inequality
- 4.3 Emerging and developing economies
- 4.4 The financial sector
- 4.5 Role of the state in the macroeconomy

EXAMS

Paper 1 - Markets and business behaviour 2hr 35%

Paper 2 - The National and global economy 2hr 35%

Paper 3 - Microeconomics and macroeconomics 2hr 30%









Economics requires a deep understanding of key concepts and your ability to interpret diagrams. We ask you learners to prepare for a basic understanding of key economic theorists and key terms. Please select here: tinyurl.com/4x4yvpf to download and complete the summer prep work.

BOOKS

Any entrepreneur's autobiography (Alan Sugar for example) Black Box Thinking by Matthew Syed



FILM & TV

Wall Street
The Big Short
The Founder

The Social Network

Inside the factory – BBC Iplayer

Economics Explained (youtube channel)

RESOURCE LINKS

www.beebusinessbee.co.uk
https://techcrunch.com
www.theguardian.com/uk/business







English Language Liferature

COURSE DETAILS

Overview

You will need a passion for both reading and writing in order to succeed on the course. If you do not enjoy reading independently then it isn't the course for you! This course is an ideal starting point for those interested in careers such as law, journalism, education, politics and any other vocation that requires a strong understanding of how language works.

Approach

In order to study language effectively, you must have a strong understanding of how it works; therefore, you will be looking closely at some of the key constituents of language and how they function in combination to make meaning in spoken and written English. This requires a good understanding of grammar, lexis and syntax.

Content

Since you are studying both Literature and Language, you will be studying language in every conceivable form from Shakespeare to a playground discussion.

Over the two years you will be required to read an anthology of poetry from the Early Modern English period to 1914, a Shakespeare play (King Lear), a modern play (Cat on a Hot Tin Roof), a range of novels and a range of non-literary texts. As well as this, you will be studying the use of language in speech and there will be opportunities for creative writing.



EXAMS

Unit 1: Poetry and Prose

2hrs 30%

Unit 2: Drama Shakespeare & Post-1900 Drama

2hrs 30%

Unit 3: Non-Literary Texts

2hrs 20%

Unit 4: Critical and Creative Genre Study

Non Exam Assessment 20%







For the New Term

Whilst copies of all the texts will be available in school it is strongly advised that you purchase your own copy for long term revision, annotations and note talking.

As such in preparation for your Language and Literature studies in September you are advised to read and annotate the following texts:

The Handmais's Tail - Margaret Atwood

In Cold Blood - Truman Capote

One of the key differences between studying English at GCSE and A level is that you will be expected to undertake more independent reading. Class time will be dedicated to look at key extracts and character development whilst analysing a writer's linguistic, literary, structural and contextual choices.

For KS5

The key thing to studying English Language and Literature is reading – but more importantly reading for meaning. Reading for meaning involves reading a wide variety of different genres and literary mediums to gain an understanding of how texts are shaped by a writer's linguistic, literary and structural choices. Use the English A level Reading list to develop your reading skills across a range of genres.

As well as reading, a keen interest in the finer details of language is necessary as this is the foundation for the course. Your ability to study a wide range of language and literary techniques across a range of texts whilst make thoughtful and perceptive links to key themes and contextual ideas is an essential skill for all aspects of the course.

FILM & TV



King Lear
Othello
Cat on a Hot Tin Roof
In Cold Blood
The Color Purple
The Madness of King
George
Frankenstein

The Handmaid's Tale 1984

Brave New World
Andrea Levy Small Island
Andrea Levy Long Song
The Romantics and Us
(a BBC documentary
on the significance of
Romanticism)
Any documentary linked
to Shakespeare

PODCASTS



Grammar girl podcast History of Literature Podcast

The Guilty Feminist Our Time: History Our Time: Culture Desert Island Discs The Penguin Podcast The Guardian Books

The New York Times Book Review BBC Radio 4 Book and Authors

USEFUL RESOURCE LINKS



EMC English and Media Centre: www.englishandmedia.co.uk/

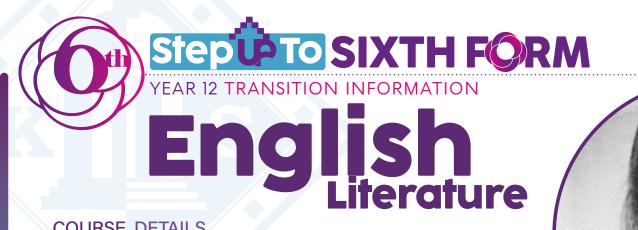
EMC emag: www.englishandmedia.co.uk/e-magazine

Poetry Foundation: www.poetryfoundation.org/ National Theatre: www.nationaltheatre.org.uk/

Hodder Education: www.hoddereducation.co.uk/englishreview

The British Library: www.bl.uk/#

Massolit: www.massolit.io/subjects/english-literature



COURSE DETAILS

Overview

English Literature involves the study of all written texts (drama, prose, poetry) from varying periods of time, including work published in recent years.

This course is for anyone who is interested in building a mature and advanced understanding of how and why authors create particular effects, or convey specific messages.

People who enrol on this course should enjoy reading a range of texts which may stretch beyond what they would normally select. They should also be prepared to conduct independent research to support and compliment class work.



EXAMS

Unit 1: Poetry - 2hrs 30%

Unit 2: Drama Shakespeare and Post-1900 Drama - 2hrs 30%

Unit 3: Unseen Texts - 2hrs 20%

Unit 4: Prose Study - Non-Exam Assessment 20%

Work you can do to prepare for A Level study

For KS5 in General

The key thing to studying English Literature is reading – but more importantly reading for meaning. Reading for meaning involves reading a wide variety of different genres and literary mediums to gain an understanding of how texts are shaped by a writer's literary, structural and contextual choices. Use the English A level Reading list to develop your reading skills across a range of genres.





See a detailed document of what we will cover in this course: www.eduqas.co.uk/media/gkxh25ep/eduqas-a-level-english-lit-spec-from-2015-e.pdf



For the New Term

Whilst copies of all the texts will be available in school it is strongly advised that you purchase your own copy for long term revision, annotations and note taking.

As such in preparation for your Literature studies in September you are advised to read and annotate 'The Color Purple' by Alice Walker.

You also need to choose another text from the A level English Reading List to read and be prepared to discuss during your first lesson back with your class teacher.

One of the key differences between studying English at GCSE and A level is that you will be expected to undertake more independent reading. Class time will be dedicated to looking at key extracts and character development within the text whilst analysing a writer's linguistic, literary and contextual choices.

BOOKS

The Wasp Factory **Enter Ghos** The Power Orbital

We Need to talk about Kevin **Brotherless Night**

FILM & TV

King Lear Brave New World Othello Andrea Levy Small Island Cat on a Hot Tin Roof Andrea Levy Long Song In Cold Blood The Romantics and Us The Color Purple (a BBC documentary The Madness of King on the significance of

Romanticism) George Frankenstein Any documentary linked

The Handmaid's Tale to Shakespeare 1984

PODCASTS

Grammar girl podcast History of Literature Podcast

The Guilty Feminist Our Time: History Our Time: Culture **Desert Island Discs** The Penguin Podcast The Guardian Books

The New York Times Book Review BBC Radio 4 Book and Authors

USEFUL RESOURCE LINKS

EMC English and Media Centre: www.englishandmedia.co.uk/

EMC emag: www.englishandmedia.co.uk/e-magazine

Poetry Foundation: www.poetryfoundation.org/ National Theatre: www.nationaltheatre.org.uk/

Hodder Education: www.hoddereducation.co.uk/englishreview

The British Library: www.bl.uk/#







Fashion & Textile Design

COURSE DETAILS

Overview

A creative qualification that enables students to develop technical design knowledge and practical application. The course encompasses a wide range of design and manufacturing disciplines; with a focus on developing the skills and confidence required to make high quality products that solve real life problems. This course develops a student's understanding of how designers approach design problems and how they take social, cultural and environmental consideration into account.

Core Material Areas

- Natural Fibres
- Regenerated Fibres
- Synthetic Fibres
- Manufactured Inorganic Fibres
- Smart Materials

Performance Characteristics of Materials

- Fibres
- Yarns
- Woven Fabrics
- Knitted Fabrics
- Non-Woven Materials
- Technical Textiles
- Material testing and Finishing methods

EXAMS

1 x 2hr30min 30% 1 x 1hr30min 20%

+ Non Practical Exam (Nea) 50%





Enhancement of Materials

- Seams
- Threads and Trims
- Fastenings and components
- Dyeing and Printing
- Embroidery and quilting

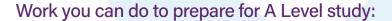
LINK TO THE SPECIFICATION



Practical Application

Revision of key materials areas and processes is a must. Research the following materials areas and associated processes that are linked to Natural, Regenerated and Synthetic Materals. The construction of materials is considered: Woven, Knitted, non- woven. Joining of materials such as seams, fastenings, finishes, hems. Decorative processes such as: printing, dyeing, quilting and embroidery.

Please research the key processes and draw and label diagrams for each. To really get a head start on the course you can also research smart materials, modern materials and technical textiles.



BOOKS

AQA AS/A level Fashion and Textils (Hodder Education)

Fashion Illustration & Design: Methods & Techniques for Achieving Professional Designs: Methods & Techniques for Achieving Professional Results Paperback – Illustrated, 30 Aug. 2017

Little Guides to Style: Volume II - A Historical Review of Four Fashion Icons-Manuela Brambatti

MEDIA

Dior (Youtube)

British Vogue (Youtube)

Fashion has a pollution problem -- can biology fix it? (ted.com)

3 creative ways to fix fashion's waste problem (ted.com)

Walk, walk, fashion baby (ted.com playlist)





PEOPLE & DESIGN STYLES TO RESEARCH

Art Nouveau CocoChanel Westwood
Art Deco Christian Dior Alexander
Pop Art Mary Quant McQueen

Minimalism Yves Saint Laurent Punk Pierre Cardin

Paul Poiret Vivienne



Food Science S-Nutrition

COURSE DETAILS

Meeting Nutritional Need of Specific Groups

- Understanding the nutritional needs of specific target groups and plan and cook complex dishes to meet their nutritional needs.
- Develop skills for preparing, cooking and presenting

Ensuring Food is safe to Eat

- Understanding hazards and risks in relation to the storage, preparation and cooking of food in different environments and the control measures needed to minimise these risks.
- Become able to recommend the control measures that need to be in place and ensure food is safe for consumption.

Experimenting to Solve Food Production Problems:

- Understanding the properties of food in order to plan and carry out experiments.
- The results of the experiments would be used to propose options to solve food production problems.

Work you can do to prepare for A Level study

Cooking

Practice cooking different dishes independently and experiment with flavours and presentation.

Reading

Keep up to date with current food affairs.

EXAMS

90min

+Internal Assessments

Bake off

MasterChef

Food Unwrapped

Eat well for less

The Secrets of your Supermarket food

0000

FILM & TV









See a detailed document of what we will cover in this course: https://tinyurl.com/4ja8fray

Start Start Strong,

finish stronger

Step U-To





French

COURSE DETAILS

Overview

A Level French students will enjoy a wide range of opportunities both in employment and Higher Education. Success in this qualification makes prospective employers take note; they know they will have before them a disciplined, hardworking and skilled applicant with that very handy extra dimension of proficiency in a second language.

A modern foreign language like French can be studied on its own – in terms of language, linguistics, literature etc – or be combined with a range of other subjects, for example when reading for a joint honours degree in French and Law (to name but one).

French A level students develop strong problem-solving, communication and teamwork skills, much valued in a variety of workplaces and when applying for HE courses.



Aims & Themes

At Kimberley we continue to work with the AQA exam board for French A level (the same board that we use for GCSE). A level study further develops those GCSE skills, and students have the time and space to become more confident, creative and certainly fluent with the language.

As your knowledge and skills expand, and your horizons broaden, you will explore a variety of themes in the French-speaking world, such as current social trends and issues, aspects of artistic culture (including music and cinema) as well as aspects of political life.

For a separate paper, we study in depth a French film (La Haine) and a French novel (Kiffe Kiffe Demain). For the main part of your speaking test, you have the opportunity to research a topic of your choice – this can be almost anything or anyone related to the French-speaking world.





Paper 1 Listening, Reading, Writing 2hrs30min Paper 2 Writing 2hrs Paper 3 Speaking 23min













Classes tend to be small, with very supportive teachers who will know you well and guide you to become an increasingly independent user of French. French A level can act as a stepping stone to many other disciplines at university or open many doors in the world of work. French graduates can enter careers in interpreting, translating, teaching and lecturing, journalism, tourism, diplomacy and many more.

Work you can do to prepare for A Level study

Good Habits

Keep GCSE vocabulary and grammar alive. Know how to form the different tenses. Try to read a little bit of French regularly. Record yourself and listen back – challenge yourself to speak for 1 minute on a variety of GCSE topics. You can use websites like Kerboodle, BBCbitesize, Seneca or Memrise to help you with this.

Regular Input

Watch French news regularly. This will also broaden your knowledge of French culture and other French speaking countries.

The French equivalent of BBCnewsround is called "1 jour 1 actu": https://www.1jour1actu.com/les-actus-a-la-une/

FILM & TV



There are hundreds to choose from.
Amongst others Netflix, Amazon and All
4 (Walter Presents) offer some excellent
French series and films to watch.

MUSIC

Listen to French charts: <u>French Top 20 @ Top40-Charts.com</u>

USEFUL RESOURCE LINKS

<u>www.kerboodle.com</u> (Kimberley GCSE French students currently have access to A level resources) <u>www.languagesonline.org.uk/Hotpotatoes/frenchindex.html</u>

www.memrise.com

www.bbc.co.uk/bitesize/subjects/zc7xpv4

https://app.senecalearning.com



Geography

COURSE DETAILS

Physical Geography

- Water and carbon cycles
- Hazards
- Coastal systems and landscapes

Human Geography

- Global systems and global governance
- Changing Places
- Contemporary Urban Environments

Fieldwork

The final 20% is made up of the NEA (a type of coursework) where you choose an aspect of the course you are curious about and carry out fieldwork and data collection to investigate it. This has to involve extensive fieldwork and usually a residential visit.



EXAMS

2 x 2hr30min - 40%

LINK TO THE SPECIFICATION

See a detailed document of what we will cover in this course: www.aqa.org.uk/subjects/geography/as-and-a-level/geography-7037



Work you can do to prepare for A Level study

Wider Reading

My Revision Notes: AQA AS/A-level Geography

FILM & TV



An Inconvenient Truth – a really interesting look at climate change

USEFUL RESOURCE LINKS

The Curious Geographer / Jay Foreman - www.youtube.com

www.geographynewsroom.co.uk/ - This site provides links to geography related events in the news. www.gapminder.org/ - The site strives to present information for a fact-based view. I particularly like the video on '200 years that changed the world'

www.geography.org.uk/ - This site is well worth a visit, as it has plenty of information, links to other good sites and continually updated material.



More Info

all subjects in greater detail: kimberleyschool.co.uk/curriculum





German

COURSE DETAILS

Overview

A Level German students will enjoy a wide range of opportunities both in employment and Higher Education. Success in this qualification makes prospective employers take note; they know they will have before them a disciplined, hardworking and skilled applicant with that very handy extra dimension of proficiency in a second language.

A modern foreign language like German can be studied on its own – in terms of language, linguistics, literature etc – or be combined with a range of other subjects, for example when reading for a joint honours degree in German and Philosophy (to name but one). German A level students develop strong problem-solving, communication and teamwork skills, much valued in a variety of workplaces and when applying for HE courses.



At Kimberley we continue to work with the AQA exam board for German A level (the same board that we use for GCSE). A level study further develops those GCSE skills, and students have the time and space to become more confident, fluent and creative with the language.

As your knowledge and skills expand, and your horizons broaden, you will explore social themes in the German-speaking world, such as Youth Culture (including fashion and music), Art and Architecture, Multiculturalism (including immigration, integration, racism), and Politics (the EU, youth politics, the reunification of Germany); the uniquely special city of Berlin gets its own module on this course, and we look at its history as well as its vibrant and diverse contemporary culture.

For a separate paper, we study in depth a German film (Good Bye, Lenin!) and a German novel (Der Vorleser). For the main part of your speaking test, you have the opportunity to research a topic of your choice – this can be almost anything or anyone related to the German-speaking World.



EXAMS

Paper 1 Listening, Reading, Writing 2hrs30min Paper 2 Writing 2hrs Paper 3 Speaking 23min

LINK TO THE SPECIFICATION





Focus

Classes tend to be small, with supportive teachers who will know you well and guide you to become an increasingly independent user of German. We actively encourage A level students to take part in visits to Germany wherever possible. German A level can act as a stepping stone to other disciplines at university or open doors in the world of work. German graduates can enter careers in interpreting, translating, teaching and lecturing, journalism, tourism, diplomacy and many more.

Work you can do to prepare for A Level study

Regular Input

- Retain what you have learned already, as it is a considerable amount and 100% useful for A level. Keep GCSE vocabulary and grammar alive. Know how to form the different tenses. Try to read a little bit of German every day.
- Use GCSE revision guides to keep practising. Record yourself and listen back challenge yourself to speak for 1 minute about yourself and your family (for example).
- Listen to the news in German just two minutes per day. It will be hard at first but you can expect to understand it near perfectly by the end of Year 13. A very good version is on tagesschau search 'tagesschau in hundert sekunden': https://www.tagesschau.de/multimedia/video/video-700657.html
- Specific research tasks and resources on **Good Bye, Lenin!** and **Der Vorleser** will be set.
- General knowledge of Germany from World War Two to the present day, including the reunification of Germany in 1990, is helpful. Politicians who have shaped Germany's development in this period include Willy Brandt, Helmut Kohl, Erich Honecker, Angela Merkel, Michael Gorbachev (he is Russian).

FILMS & BOOKS

Die fetten Jahre sind vorbei (The Edukators; film)

Die Welle (The Wave; film)

Tschick (Goodbye Berlin; film)

Das Leben der Anderen (The Lives of Others; film)

The Shortest History of Germany – by James Hawes

City-lit Berlin - edited by Heather reves and Katy Derbyshire





USEFUL RESOURCE LINKS

www.languagesonline.org.uk/Hotpotatoes/germanindex.html

www.kerboodle.com (Kimberley GCSE German students currently have access to A level resources) www.duolingo.com

https://quizlet.com/en-gb

www.bbc.co.uk/bitesize/subjects/z8j2tfr



Health& Social Care



F090: Principles of health & social care

Topics include:

- Equality, diversity, and rights in health and social care settings
- Managing hazards, health and safety in health and social care settings
- Legislation in health and social care settings
- Best practice in health and social care settings

F092: Person-centred Approach to Care

Topics include:

- Taking a person-centred approach
- Meeting needs and providing support in a person-centred way
- Communication skills needed to offer personcentred care

EXAMS

Y12 - 2x90min EXAMS + 1 Internal Assessment Y13 - 3 Internal Assessments



F091: Anatomy and physiology for health & social care

Topics include:

- Cardiovascular system
- Respiratory system
- Digestive system
- Musculoskeletal system
- Control and regulatory systems
- Reproductive system

F093: Supporting people with mental health conditions

- Topics include:
- Definitions and views of mental health
- Mental health conditions
- Provision of mental health services
- Treatment and support for mental health conditions

Complementary Subjects

These subjects might complement this qualification:

- A Level Biology
- A Level Psychology
- A Level Sociology

LINK TO THE SPECIFICATION

See a detailed document of what we will cover in this course:

OCR Level 3 Qualification Cambridge Advanced Nationals in Health and Social Care Spec





Course Overview

The OCR Level 3 Alternative Academic Qualification (AAQ) Cambridge Advanced National in Health and Social Care (Extended Certificate) is for students aged 16-19 years old. It will develop knowledge, understanding and skills that will help prepare you for progression to undergraduate study when taken alongside other qualifications and are relevant to the health and social care sector.

This programme is aimed at students who have a real desire to work in the NHS or affiliated services and care for others in careers as varied as health care assistants, social workers, paramedics, physiotherapists, nurses and clinical psychologists.

You will have the opportunity to apply what you learn to real-life contexts, such as:

- Recommending support for individuals
- Presenting advice and guidance
- Communicating and building relationships

The Extended Certificate in Health and Social Care covers equality, diversity and rights, health and safety, anatomy and physiology, person-centred approaches, mental health, long-term physiological conditions, public health strategies, sexual health, nutrition, and lifestyles. You will develop the necessary knowledge, understanding and skills to prepare you for progression to undergraduate study.

All qualifications are fully accredited for UCAS points, and a large number of our students progress onto higher education.

Work you can do to prepare for A Level study

Holiday Homework

Sensible risk assessment in care settings - HSE

The information looks at the typical hazards that can result in serious harm to employees in health and social care environments as well as individuals who live in or access these services, other professionals and visitors.

TASK - Choose TWO of the 'typical' or 'specific hazards' and explain them as well as adding what you would need to do, how to reduce the risk itself, if a risk assessment is needed?

Further reading links are below and all are related to Unit 3, Health, safety and security, which is one of the exam areas.

USEFUL RESOURCE LINKS

www.food-hygiene-certificate.co.uk/food-allergy-awareness-training-course.aspx

HACCP - Understanding HACCP. View demo and keep clicking NEXT

Food Hygiene Level 1 Food safety & Hygiene. Launch demo and work through.

Health & Safety - Manual handling. Click on the blue box and work through

Fire Safety - Click on the peach box and work through

COSHH - Click on the pink box and work through

1st Aid - Click on the blue box and work through

Resources - Quiz. Have a go.





COURSE DETAILS

Paper 1: Britain, 1625– 1701: conflict, revolution and settlement

- The quest for political stability, 1625–88
- Religion: conflict and dissent, 1625–88
- Charles I 1625-1640
- Social and intellectual challenge, 1625-88
- Economy, trade and empire, 1625-88
- How revolutionary, in the years to 1701, was the Glorious Revolution of 1688–89?

Paper 2: Russia in revolution, 1894–1924

- The rule of Nicholas II, 1894–1905
- The end of Romanov rule, 1906-17
- The Provisional government and its opponents, February October 1917
- Defending the Bolshevik revolution, October 1917–24



Paper 3: Civil rights and race relations in the USA, 1850–2009

- The changing geography of civil rights issues
- Changing portrayal of civil rights issues in fiction and film
- 'Free at last', 1865-77
- The triumph of 'Jim Crow', 1883-c1900
- The New Deal and race relations, 1933–41
- 'I have a dream', 1954-68
- Obama's campaign for the presidency, 2004–09

NEA: Nazi Germany

- 3000-4000 word essay
- Students complete an independently researched enquiry on historical interpretations

EXAMS

Paper 1: (30% A Level) 2 hours 15 minutes exam

Paper 2: (20% A Level) 1 hour 30 exam

Paper 3: (30% A Level) 2 hours 15 minutes exam

NEA: (20% A Level)









- Research into key events and people identified in the specifications.
- Buy the textbook: https://tinyurl.com/45c6j44c

Podcasts

Podcasts are a great way to broaden your historical knowledge. Two of the best for History are:

- History Extra
- History Hit

In these you can search for topics we study at A Level or you could research topics that you are interested in to broaden your wider knowledge.

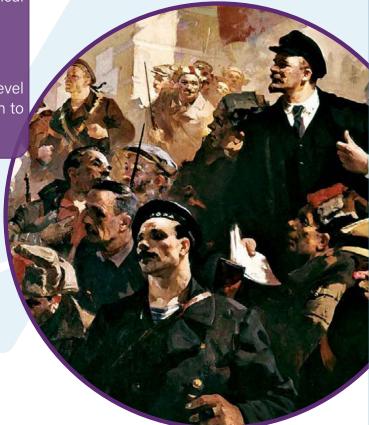


Absolute History Cogito

Arzamas Modern Histroy TV

CrashCourse Stefan Milo History Matters TedEd

PBS Eons



USEFUL RESOURCES / LINKS FOR Y12 UNITS

Paper 1:

- House of Stuart | History & Facts | Britannica
- Glorious Revolution of 1688 Definition & Summary (history.com)
- BBC History: Historical Figures
- BBC History: Civil War and Revolution
- www.bbc.co.uk/bitesize/topics/zgc4jxs
- historyhit.com/articles/early-modern/
- BBC Four British History's Biggest Fibs with
 Lucy Worsley, Series 1, The Glorious Revolution
 BBC World Service Witness History, The Russian
- The Stuarts (spartacus-educational.com)

Paper 2:

- Russian Revolution | Definition, Causes, Summary, History, & Facts | Britannica
- Russian History Archives | HISTORY
- BBC History: Historical Figures
- www.bbc.co.uk/bitesize/topics/zj72pv4
- History Articles | History Hit
- BBC World Service Witness History, The Russian Revolution: Alexander Kerensky
- BBC World Service Witness History, The Russian Revolution: The Bolsheviks Take Control
- Russian History Revision spartacus-educational.com)



Maths

COURSE DETAILS

Pure

- Proof
- Algebra and functions
- Coordinate geometry in the (x,y) plane
- Sequences and series
- Trigonometry
- Exponentials and logarithms
- Differentiation
- Integration
- Vectors

EXAMS

3x 2hr (33.3333333333...%)



Mechanics

- Quantities and units in mechanics
- Kinematics
- Forces and Newton's laws
- Moments

Discrete

- Statistical sampling
- Data presentation and interpretation
- Probability
- Statistical distributions
- Statistical hypothesis testing



Log on to sparx maths, in the independent learning section select 'AQA Level 2 Further Maths' and work your way through the number and algebra units. This will keep higher GCSE maths fresh in your mind whilst also providing some challenging problem solving questions.

BOOKS

The Codebook – Simon Singh
Fermat's Last Theorem – Simon Singh
Does God Play Dice? – Ian Stewart
The Music of the Primes – Marcus du Sautoy
Alex's Adventures in Numberland – Alex Bellios

FILM & TV

Hidden Figures

The Man Who Knew Infinity Pi (1998)

The Imitation Game

Numberphile Numberty Maths





USEFUL RESOURCE LINKS

For content and wider reading www.khanacademy.org/

For consolidation of GCSE topics: www.hegartymaths.com or www.bbc.co.uk/bitesize For user-friendly graphical software: www.desmos.com (also available on smart devices)

LINK TO THE SPECIFICATION





Further Maths

COURSE DETAILS

Pure

- Proof
- Complex numbers
- Matrices
- Further algebra and functions
- Further calculus
- Further vectors
- Polar coordinates
- Hyperbolic functions
- Differential Equations
- Numerical Methods

EXAMS



Mechanics

- Dimensional analysis
- Momentum and collisions
- Work, energy and power
- Circular motion
- Centres of mass and moments

Discrete

- Graphs
- Networks
- Network flows
- Linear programming
- Critical path analysis
- Game theory for zero-sum games
- Binary operations and group theory

Work you can do to prepare for A Level study

Log on to sparx maths, in the independent learning section select 'AQA Level 2 Further Maths' and work your way through the coordinate geometry section. You could also work through the matrices unit watching the videos to support. This will keep the harder topics from GCSE maths fresh in your mind whilst also providing some challenging problem solving questions.

BOOKS

The Codebook - Simon Singh Fermat's Last Theorem - Simon Singh Does God Play Dice? - Ian Stewart The Music of the Primes – Marcus du Sautoy Alex's Adventures in Numberland - Alex Bellios

FILM & TV

Hidden Figures

The Man Who Knew Infinity Pi (1998)

The Imitation Game

Numberphile

YOUTUBE

Hegarty Maths

USEFUL RESOURCE LINKS

For content and wider reading www.khanacademy.org/

For consolidation of GCSE topics: www.hegartymaths.com or www.bbc.co.uk/bitesize

For user-friendly graphical software: www.desmos.com (also available on smart devices)





Mathematical Studies

Overview

Mathematical Studies is for those students who wish to continue their maths education without committing to the full A level. Students should have got at least a grade 4 at GCSE maths and have a real interest in maths in the wider world. The subject helps to give a greater understanding of financial mathematics and the use of statistics to make sense of data. As a result of this it supports a number of other subjects such as Geography, Psychology, Biology and Business studies. This one-year AS-Level course contains mathematics for personal finance, estimation to solve real-world problems, and examining data sets, including critical analysis of data in the media.

Mechanics

The compulsory content of the course includes:

- 3.1 Analysis of data
- 3.2 Maths for personal finance
- 3.3 Estimation
- 3.4 Critical analysis of given data and models.

Discrete

As Kimberley school cover the 2a specification students will also cover:

- 3.5 The normal distribution
- 3.6 Probabilities and estimation
- 3.7 Correlation and regression

This allows students to develop their mathematical reasoning and statistical analysis.

Work you can do to prepare for A Level study

We recommended checking out the listed media below to stay or get into a mathematical mindset as well as highlighting mankind's relationship with numbers and how it continues to build the world as we know it.

EXAM

1.5hrs - 60 Marks



BOOKS

The Codebook – Simon Singh
Fermat's Last Theorem – Simon Singh
Does God Play Dice? – Ian Stewart
The Music of the Primes – Marcus du Sautoy
Alex's Adventures in Numberland – Alex Bellios

FILM & TV

Hidden Figures —

The Man Who Knew Infinity Pi (1998)

The Imitation Game

YOUTUBE

Numberphile Hegarty Maths

USEFUL RESOURCE LINKS

For content and wider reading www.khanacademy.org/

For consolidation of GCSE topics: www.hegartymaths.com or www.bbc.co.uk/bitesize

For user-friendly graphical software: www.desmos.com (also available on smart devices)



YOUT marks







Media Studies

COURSE DETAILS

Overview

The Media course covers the study of contemporary forms such as film, television, advertising, newspapers, magazines, and popular culture (such a blogs and online magazines). Some of these will be mainstream and familiar to you, some may be more historical and intended for minority audiences. The A-Level course supports your interest in these forms and more importantly, how what we observe and consume, affects us, both socially and culturally.

The EDUQAS course also offers the opportunity to design and be creative, using your knowledge of the texts you study.

Component One:

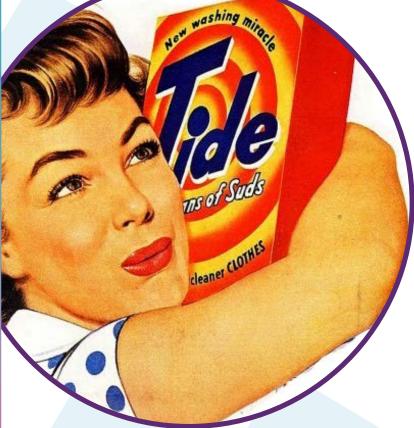
Media Products, Industries and Audiences

- Advertising
- Radio
- Film marketing
- Video Games
- Music Video
- Film
- Newspapers

Component Two:

Media Forms and Products in Depth

- Television in the Global Age
- Magazine: Mainstream and Alternative Media
- Media in the Online Age



EXAMS

2 x Written 2hrs30min 35% Unit 3 - Coursework 30%



Feeling Creative?

- The briefs for the design element of the course cover print and moving image.
- If you have iOS, an app called Canva helps you to create magazines at home. You could use this YouTube page to create your own.

PODCASTS & RADIO



Women's Hour
The Rest is Entertainment
The Media Show





See a detailed document of what we will cover in this course: www.edugas.co.uk/media/d3fbs2s3/edugas-a-level-media-studies-spec-from-2017-e-27-05-2021.pdf



Keep Current

At the moment, there are so many different things that you can watch and study to understand the media. If you've never studied Media before, you could use BBC Bitesize to start creating helpsheets on the concepts we study, listed here. Look at people who own Media industries: Disney, Rupert Murdoch and the BBC to name a few.

The EDUQAS Media Studies for A-Level book for year 1 and AS covers a lot of the course.

- Buying and reading newspapers and magazines are a good way to develop your awareness of the form and their intended audiences.
- Try to buy one version of The Times to see if you can identify what type of audiences you can identify from the content and language used within it.
- You could look at newspaper covers and the way they change the way they report the same stories from day to day: Sky News.
- What is a PSB? Why is this important to the United Kingdom?
- What is the BBC's remit? Can you find a programme which demonstrates they are fulfilling this?
- Consider the political spectrum: what do the Labour and Conservatives stand for?
- Do any TV channels support the political spectrum: perhaps research Channel 4 and how they challenge the ideas presented by political parties.

FILM & TV

The Gentlemen Killing Eve The Breakfast Club Line of Duty Alien Black Mirror The Prestige Louis Theroux Fight Club Squid Games

Adolescense Kin

Eternal Sunshine of the **Peaky Blinders** Spotless Mind A Thousand Blows

Day of the Jackal Joan

Mobland

BOOKS

Women Don't Owe You Pretty The Guilty Feminist Filling the Void



USEFUL RESOURCE LINKS

Media Know All provides lots of articles on Media concepts to broaden your awareness of texts. Mrs Fisher produces a lot of useful videos to explain some theories and information on the set texts we study.





Photography

COURSE DETAILS

Personal Investigation

- This is a practical investigation supported by written material.
- Students are required to conduct a practical investigation, into an idea, issue, concept or theme, supported by written material. The focus of the investigation must be identified independently by the student and must lead to a finished outcome or a series of related finished outcomes.
- The investigation should be a coherent, indepth study that demonstrates the student's ability to construct and develop a sustained line of reasoning from an initial starting point to a final realisation.
- The investigation must show clear development from initial intentions to the final outcome or outcomes.
- It must include evidence of the student's ability to research and develop ideas and relate their work in meaningful ways to relevant critical/ contextual materials.
- The investigation must be informed by an aspect of contemporary or past practice of artists, photographers, designers or craftspeople.

ASSESSMENT

UNIT 1 (60%) UNIT 2 (40%) Prep Evidence & 15hrs Supervised





Externally Set Assignment

Separate question papers will be provided for each title. Each question paper will consist of a choice of eight questions to be used as starting points. Students are required to select one. Students will be provided with examination papers on 1 February, or as soon as possible after that date.

Preparatory Period (from 1st Feb)

Following receipt of the paper students should consider the starting points and select one. Preparatory work should be presented in any suitable format, such as mounted sheets, design sheets, sketchbooks, workbooks, journals, models and maquettes.

Supervised Time

Following the preparatory period, students must complete 15 hours of unaided, supervised time.

In the 15 hours students must produce a finished outcome or a series of related finished outcomes. informed by their preparatory work.





Wider Reading

- The Photo Book, Phaidon
- On Photography Susan Sontag

FILM & TV



(Documentaries Available Online)

- The Genius of Photography
- McCullin

YOUTUBE



Jamie Windsor Potato Jet The Art of Photography Mike Browne Mathiew Stern

USEFUL RESOURCE LINKS



• The Student Art Guide www.studentartguide.com

The best website for Art students! Full of ideas, advice and examples of great student Art!

Pinterest www.pinterest.com

Type in a topic and it will generate loads of images around that theme

Artist A Day www.artistaday.com

A great resource for finding new /contemporary artists

But Does It Float www.butdoesitfloat.com

Mind blowing art, updated every day

- Boooooom www.boooooom.com

Great illustartion and graphic design

- Tumblr www.tumblr.com

A bit like Pinterest. Type in a subject and see what comes up

• The Guardian www.guardian.co.uk

Great resource for current affairs, politics, society, culture

- fstoppers.com (& Youtube channel) online community with competitions & peer reviews
- Colossal www.thisiscolossal.com/ Art, design and visual culture



Physics

COURSE DETAILS

Forces & Motion

- Kinematics and dynamics
- Linear and projectile motion
- Motion with non-uniform acceleration
- Density and pressure
- Work, energy and power
- Springs and mechanical properties of materials



Newtonian World and Astrophysics

- States of matter
- Thermal properties of materials
- Ideal gases
- Circular motion and centripetal force
- Simple harmonic motion and damping
- Newton's law of gravitation
- Planetary motion
- Gravitational potential and energy

Electrons, Waves and Photons

- Charge, current, electromotive force, potential difference and power
- Resistivity and resistance
- Series and parallel circuits
- Potential dividers
- Wave motion
- Electromagnetic waves
- Stationary waves and superposition
- Quantum physics

Particles and Medical Physics

- Capacitors
- Coulomb's law
- Uniform electric fields and electric potential energy
- Magnetic fields
- Electromagnetism
- The nuclear atom
- Fundamental particles
- Radioactivity
- Nuclear fission and fusion
- Using X rays

EXAMS

Modelling (37%) - 2hr15min Exploring (37%) - 2hr15min

Unified (26%) - 1hr15min



LINK TO THE SPECIFICATION

See a detailed document of what we will cover in this course: www.ocr.org.uk/lmages/171726-specification-accredited-a-level-gce-physics-a-h556.pdf



LINO



Wider Reading

Rovelli, C. (2014). Seven Brief Lessons on Physics Czerski, H. (2016) Storm in a Teacup: The Physics of Everyday Life

Bryson, B. (2004). A Short History of Nearly Everything Hawkin, S & Mlodinow, L. (2006). A Briefer History of Time Singh, S. (2004). Big Bang

Recap of GCSE Maths Skills

A-Level Physics: Essential Maths Skills (CGP A-Level

Brushing up on GCSE Triple only Physics content

(especially if you did the Combined GCSE course)

 Space physics – life cycle of a star, orbits, the expanding universe

Light properties – refraction, reflection, lenses and colour

Black body radiation and infrared

- Electrical fields
- Boyle's law for gas pressure and volume
- Nuclear radiation in medicine
- Nuclear fission and fusion reactions
- Moments, levers and gears
- Conservation of momentum and impact forces
- Pressure in fluids and upthrust

FILM & TV

Interstellar (2014)
Gravity (2013)
The Theory of Everything (2014)
Wonders of the Universe BBC (Documentary 2011)

USEFUL RESOURCE LINKS

For content and wider reading www.khanacademy.org/ For problem solving https://isaacphysics.org The University of Nottingham's www.sixtysymbols.com/

Interactive simulations https://phet.colorado.edu/en/simulations/category/physics

YOUTUBE



Veritasium Reel Truth Science
ASAPscience Steve Mould
SixtySymbols Real Engineering
Minutephysics Up and Atom
TedEd Smarter Everyday
The Royal Institution

PODCASTS

Ologies with Alie Ward Science Vs

The Curious Cases of Rutherford and Fry

New Scientist Weekly The Life Scientific

The Infinite Monkey Cage









YEAR 12 TRANSITION INFORMATION Design & Technology Product Design

COURSE DETAILS

Overview

A creative and academic course that enables students to develop technical design knowledge and practical application. The course encompasses a wide range of design and manufacturing disciplines; with a focus on developing the skills and confidence required to make high quality products that solve real life problems. This course develops a student's understanding of how designers approach design problems and how they take social, cultural and environment consideration into account.

Core Material Areas

- metals: ferrous, non-ferrous, alloys
- woods: hardwoods, softwoods, manufactured boards
- polymers: thermoplastics, thermoset polymers
- papers and boards

Metals & Alloys

- Students should be aware of the different stock forms of metals, including: sheet, plate, Bar: round, square, hexagonal etc
- Students should be familiar with the various types of metals: ferrous (stainless steel, HSS..), nonferrous (aluminium, copper...) and respective alloys variants.



Timbers & Boards

- Students should be aware of the different stock
- Forms of timber: rough sawn, PSE, natural timber
- Manufactured boards...
- Be able to describe the performance characteristics of woods: grain pattern/ direction, surface defects/warpage, shrinkage/

Polymers

- Students should be aware of the different stock forms of polymers: sheet, film, granules, rod and other extruded forms, foam and powder.
- Students should be able to describe the performance characteristics of polymers: toughness, elasticity, insulation, ability to be moulded, resistance to chemicals and liquids, suitability for food packaging and
- Recyclability...
- Students should be familiar with polymers such as: Thermoplastic, polypropylene (inc low/high density), nylon, PVC, polyester resin and more.

EXAMS

1x 2hr30min 30% 1 x 1hr30min 20%

+ Non Exam Practical 50%











Practical Application

Revision of key materials areas and processes is a must. Research the following materials areas and associated processes that are linked to plastics, metals and woods.

- Plastics: injection moulding, blow moulding, rotational moulding and extrusion moulding
- Wood: Wood turning, steam bending and lamination
- Metals: sand casting, gravity die casting, MIG welding and brazing

Please research the key processes and draw and label diagrams for each.

To really get a head start on the course you can also research smart materials, modern materials and biodegradable polymers.



BOOKS

We recommend the AQA AS/A level Design and Technology Product Design (Hodder Education) Text book as an excellent starting point.

Drawings for product designers – Kevin Henry The Design of Everyday Things - Don Norman Sketching The basics - Koos Eissen, Steur Roselien

YOUTUBE / TED

Tony Fadell - The First Secret of Design is Noticing (ted) 10 principles of design (youtube) John Cary - How Architecture Can Create Dignity For All (ted)

Michael Murphy Architecture That's Built to Heal (ted)



PEOPLE & DESIGN STYLES TO RESEARCE

Philippe Starck Art and crafts movement

James Dyson Art Deco Modernism Margaret Calvert Dieter Rams Bauhaus Marianne Brandt Streamlining Charles Eames Post modernism



Psychology

COURSE DETAILS

Introductory Topics in Psychology

- Social Influence How is our behaviour influenced by others? Why do some people conform/obey and others do not?
- Memory How does our memory system work? Why do we forget? How can memory be manipulated?
- Attachment How and why do infants attach to caregivers? What happens if they don't? Are there different attachment types?
- Psychopathology How do we define abnormality? What are the causes/treatments of phobias, depression and OCD?

Psychology in Context

- Approaches how do the 6 approaches explain human behaviour and mental illness?
- Biopsychology do different parts of the brain perform specific functions? Can the brain recover from damage? How can we study the brain? What happens in the brain when we are asleep?
- Research Methods How do psychologists conduct research? What ethical issues should we consider? How do we analyse data and structure a report?

Issues and Options in Psychology

- Issues and Debates Does nature or nurture play more of a role in human behaviour? What is gender bias in research/theory?
- Relationships What factors affect attraction? How do relationships form? Why do relationships break down? What are virtual and parasocial relationships?
- Schizophrenia What are the symptoms, causes and treatments? Which treatment is most effective?
- Aggression Is violence innate or learned? Why are rates of prison aggression on the increase? What role does the media play?

EXAMS

3 x 2hrs (33,3%)









Wider Reading

- Britton, P. (1998). The Jigsaw Man.
- Slater, L. (2005). Opening Skinner's Box: Great Psychological Experiments of the Twentieth Century.
- Zimbardo, P. (2008). The Lucifer Effect: How Good People Turn Evil.
- Sacks, O. (2011). The Man Who Mistook His Wife for a Hat.

Research preparation for key psychologists in the course. Find out their studies and/or theories.

- Sigmund Freud
- Ivan Pavlov and B.F. Skinner
- Albert Bandura
- Abraham Maslow
- Phillip Zimbardo
- Stanley Milgram
- John Bowlby
- Mary Ainsworth



FILM & TV

Beautiful Mind

The Girl on the Train

Split, Unbreakable and Glass trilogy

The Stanford Prison Experiment

Conversations with a Killer (Netflix)

Derren Brown - The Push, Sacrifice

Stacey Dooley - On the Psych Ward (BBCi)

BBC sounds - The Science of Evil

The Man with no Short-Term Memory (YouTube)

BBC Stories - I Only Have Half a Brain - Jodie Milner.

BOOKS

Before I go to sleep - S. J. Watson

Gone Girl - Gillian Flynn

Reaching Down The Rabbit Hole: Allan Ropper

The Lucifer Effect - Philip Zimbardo

Opening Skinner's Box - Lauren Slater



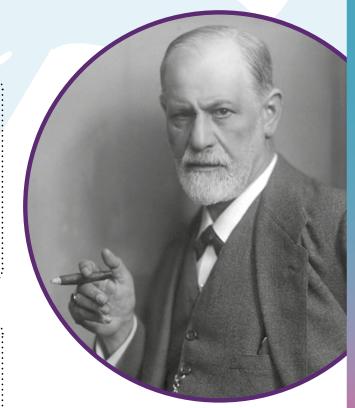


USEFUL RESOURCE LINKS

For Documentaries: www.bbc.co.uk/iplayer - Louis Theroux

For Podcasts: www.bbc.co.uk/sounds/category/podcasts - Mental Health

For TED talks: www.ted.com/topics/psychology E.g. Elizabeth Loftus - how reliable is your memory?



Religious studies

COURSE DETAILS

Philosophy of Religion

- Ancient philosophical influences
- The nature of the soul, mind and body
- Arguments about the existence or non-existence of God
- The nature and impact of religious experience
- The challenge for religious belief of the problem of evil
- Ideas about the Nature of God
- Issues in Religious Language

Religion and Ethics

- Normative ethical theories, religious, teleological and deontological approaches
- The application of ethical theory to Business Ethics, Euthanasia and Sexual Ethics
- Debates surrounding the idea of conscience
- Meta Ethics

Developments in Religious Thought

- Augustine and Human Nature
- Death and the Afterlife
- Knowledge of God's Existence
- Christian Moral Principles and Action
- Contemporary Christian Theology and Society
- Gender in Theology and Society



EXAMS

3 x 2hrs - 33.3%



LINK TO THE SPECIFICATION

See a detailed document of what we will cover in this course: ocr.org.uk/Images/242913-specification-accredited-a-level-gce-religious-studies-h573.pdf Watch these interviews to understand why people study Religion, Philosophy and Ethics: www.closertotruth.com/series/why-study-theology





Wider Reading

- Dawkins, R. (2006). The God Delusion
- McGrath, A. (1991). Introduction to Christian Theology
- Vardy, P. (1994). The Puzzle of Ethics

Research Key Scholars

Plato

- David Hume
- Aristotle
- Richard Dawkins
- St. Augustine
- Karl Barth
- Thomas Aquinas
- John Calvin
- Immanuel Kant



FILM & TV



The Good Place

The Matrix

Erin Brokovich

The Truman show

Bruce Almighty

Youtube: Wireless philosophy

Stephen Fry's documentary episode 1 "out

there"

"Beyond Belief" BBC episodes

BOOKS



Sophie Choice – William Styron Sophie's World - Jostein Gaarder

Bave new World – Aldous Huxey

His Dark Materials - Philip Pullman

Night - Elie Wiesel

'The Pig That Wants To Be Eaten: And 99

Other Thought Experiments'- Julian Baggini

USEFUL RESOURCE LINKS



For content and wider reading peped.org/

For Podcasts and Audiobooks: thepanpsycast.com/home

For some content and wider reading: www.philosopherkings.co.uk/



Spanish

COURSE DETAILS

Overview

A Level Spanish students will enjoy a wide range of opportunities both in employment and Higher Education. Success in this qualification makes prospective employers take note; they know they will have before them a disciplined, hardworking and skilled applicant with that very handy extra dimension of proficiency in a second language.

A modern foreign language like Spanish can be studied on its own – in terms of language, linguistics, literature etc – or be combined with a range of other subjects, for example when reading for a joint honours degree in Spanish and Economics (to name but one). Spanish A level students develop strong problem-solving, communication and teamwork skills, much valued in a variety of workplaces and when applying for HE courses.

Aims & Themes

At Kimberley we continue to work with the AQA exam board for Spanish A level (the same board that we use for GCSE). A level study further develops those GCSE skills, and students have the time and space to become more confident, fluent and creative with the language. As your knowledge and skills expand, and your horizons broaden, you will explore social themes in the Spanish-speaking world, such as Youth Culture (including fashion and music), Art and Architecture, Multiculturalism (including immigration, integration, racism), and Politics (monarchies and dictatorships, youth politics).

For a separate paper, we study in depth a Spanish film (El Laberinto del Fauno) and a Spanish play (La Casa de Bernarda Alba). For the main part of your speaking test, you have the opportunity to research a topic of your choice – this can be almost anything or anyone related to the Spanish-speaking World.

EXAMS Paper 1 - Listening, Reading, Writing 2hrs30min Paper 2 - Writing 2hrs Paper 3 - Speaking 23min

Focus

Classes tend to be small, with supportive teachers who will know you well and guide you to become an increasingly independent user of Spanish. Spanish A level can act as a stepping stone to other disciplines at university or open doors in the world of work. Spanish graduates can enter careers in interpreting, translating, teaching and lecturing, journalism, tourism, diplomacy and many more.





Active Use

- Retain what you have learned already, as it is a considerable amount and 100% useful for A level. Keep GCSE vocabulary and grammar alive. Know how to form the different tenses. Try to read a little bit of Spanish every day.
- Use GCSE revision guides to keep practising. Record yourself and listen back challenge yourself to speak for 1 minute about yourself and your family (for example).
- Listen to the news in Spanish– just 2 minutes per day. It will be hard at first but you can expect to understand it near perfectly by the end of Year 13. www.elpais.es, www.elmundo.es, www. abc.es, bbc.com/mundo, www.20minutos.es www.rtve.es/ with access to news articles, videos, etc. to keep up to date with current affairs.
- Specific research tasks and resources on La Casa de Bernarda Alba and El Laberinto del Fauno will be set.

General knowledge of Spain in the 20th century, including the Civil War and Franco's Dictatorship, is helpful. Several important names to research are: Frida Kahlo, Antoni Gaudí, Salvador Dalí, Pablo Picasso or Juan Carlos I.

FILM & TV

Ocho Apellidos Vascos (Spanish Affair) Volver by Pedro Almodóvar Las 13 Rosas



Abel

BOOKS

A brief History of Spain - Jeremy Black
El otro árbol de Guernica - Luis de Castresana
Como agua para chocolate - Laura Esquivel

USEFUL RESOURCE LINKS

www.kerboodle.com (Kimberley GCSE Spanish students currently have access to A level resources) www.memrise.com (includes A level Spanish vocabulary and verbs)

www.bbc.co.uk/bitesize/subjects/z4dqxnb (useful revision of GCSE course)

www.duolingo.com

www.spanishrevision.co.uk/a_level/ (Based on Edexcel specs so not all the topics are relevant but there's some good practice here as well as news articles and vocabulary)

paralleltext.io/ - gives you a range of literary texts to read the Spanish and click to reveal the English)

www.dualtexts.com/ and www.espanolavanzado.com/

(bilingual articles which show English and Spanish texts side-by-side)

lyricstraining.com/es - fill in the lyrics of the song – varying levels of difficulty and a good way to find out more about Spanish music!

www.languagesonline.org.uk/ - lots of interactive grammar activities & some AS/A2 resources relevant to the new specification

languagesresources.co.uk/home/spanish/ - range of activities, resources on topics & grammar points



Sociology

COURSE DETAILS

Education with Theories and Methods

- Education Why do girls outperform boys? Are there social class differences in achievement? What about ethnic differences? What are the effects of teacher labelling? What is streaming? What is the self-fulfilling prophecy? What do functionalists think about the education system? What about Marxists? What educational policies have been implemented?
- Theories and Methods What methods do sociologists use to conduct research? What are the strengths and weaknesses of these methods? Is Sociology a science?

NT 2

Topics in Sociology

- Families and Households Why has the birth rate and death rate in the UK decreased? Why are more people getting divorced? Why has domestic violence increased? What are the different sociological views on family diversity?
- Beliefs in Society What do feminists think about religion? Are people more or less religious than in the past? Is religion simply changing? Are New Age movements replacing traditional religions? Is Science? How has religion led to social change?

NT 3

Crime and Deviance with Theories and Methods

- Crime and Deviance What are functionalist views on crime? What is labelling theory? Are there gender differences in crime rate? What about social class or ethnic differences? Why do people commit crime? What role does the media play? How can crime be prevented and controlled? Does rehabilitation work?
- Theories and Methods What is the Functionalist perspective on society? What do Marxists and Feminists argue? How is research used to inform social policies?

EXAMS

3 x 2hrs (33.3%)





Wider Reading

- Hochschild, A.R. (2012). The Second Shift: Working Families and the Revolution at Home.
- Beeden, A. (2015). The Sociology Book: Big Ideas Simply Explained.
- Perez, C.C. (2020). Invisible Women: Exposing Data Bias in a World Designed for Men.

Research preparation for key Sociologists in the course. Find out their studies and/or theories.

- Emile Durkheim
- Karl Marx
- Ann Oakley
- Tony Sewell

- Max Weber
- Charles Murray
- Pierre Bourdieu
- Howard Becker
- · Anthony Giddens and Ulrich Beck · Basil Bernstein



Current Affairs

As Sociologists, we are interested in what is happening in society so please watch the news - download the BBC app to your phone and allow notifications. We can use these current (contemporary) examples in our essay answers to gain application (A02) marks from the examiner. Examples include the Covid-19 pandemic, the Cost of Living Crisis, Brexit, changes within the government (new laws), monarchy (death of Queen Elizabeth II) and religion (appointment of new Pope and changes allowing more rights for women), as well as social protest movements such as the Black Lives Matter movement. Keep an eye out for any articles on Crime, Education, Religion, and Families, as these are our main 4 topics.

FILM/TV/BOOKS

Joseph and the Amazing Technicolour Dreamcoat. Marriage Expectations vs. Reality - Andy Stanley. 'Max Weber and the Protestant Ethic' - BBC Radio 4 wStephen Fry.

'Karl Marx on Alienation' - BBC Radio 4 wGillian Anderson

Educating Greater Manchester (Channel 4)

Growing Up Poor (Channel 4)



Crime: Are we Tough Enough? When They See Us (Netflix)

Selma

On the Basis of Sex

Instant Family

Freedom Writers

The Handmaid's Tale Atwood, M. (2017).

USEFUL RESOURCE LINKS

For Documentaries: www.bbc.co.uk/iplayer - Louis Theroux - Behind Bars, Love without Limits.

For Podcasts: www.bbc.co.uk/sounds/category/podcasts - The Secret History of Science and Religion. For TED talks: www.ted.com/topics/sociology E.g. 3 Ways to Build a Happy Marriage and Avoid Divorce.





POTT C-Tech

COURSE DETAILS

Body Systems and the Effects of Physical Activity

In this unit you will gain an understanding of

- Structures and functions of the key body systems,
- How these support and impact performance in sport and physical activity and the effects that physical activity, training and lifestyle can have on them.

Sports Coaching and Activity Leadership

This unit will give you an understanding of:

- What makes good sports coaches/activity leaders and methods that can be employed to improve the performance of participants.
- The roles and responsibilities of coaches/leaders and how these differ from each other.
- The skills and understanding needed to effectively plan and deliver a series of sports or activity sessions reflecting on your own practice and using this feedback to improve your performance as a sports coach or activity leader.

Sports Organisation and Development

In this unit you will gain an understanding of:

- The organisations involved in sport in the UK, their roles and responsibilities and how they work together.
- Sports development, including the organisations involved, it's demographic and why,
- How sports development is carried out and how the success of sports development initiatives can be measured.
- Using ultrasound

Performance Analysis in Sport and Exercise

This unit will give you the skills and knowledge required to carry out performance profiling and analysis and deliver feedback to the performers in a manner that is suitable for them.









56

Sport and Exercise Psychology

In this unit you will learn:

- Different motivations that people have for participating in sport and exercise and how performance can be managed through an understanding of attribution theory, stress and group dynamics.
- The impacts that participation in sport and exercise can have on a person's mental health and wellbeing, whether an elite performer or a member of the general public.

Work you can do to prepare for A Level study

People to Research

Lionel Messi - Argentine professional footballer who is often considered the best player in the world - Watch: The Making Of Messi

Usain Bolt - Jamaican former sprinter widely considered to be the greatest sprinter of all time - Watch: Usain Bolt: Born to Run (BBC Documentary)

Simone Biles - American artistic gymnast. Third most decorated gymnast of all time - Watch: Simone Biles 2017

Sir Dave Brailsford CBE - British cycling coach. Watch: 5 Minutes with Leaders: Sir Dave Brailsford, Team Sky



BOOKS



Cambridge Technicals Level 3 Sport and Physical Activity Student Textbook Notational Analysis of Sport by Mike Hughes & Ian Franks Sports Psychology by Matt Jarvis The Muscle Book by Paul Blakey

TV & YOUTUBE



Coaches Conference 5 Live Sport British Cycling Road to Glory TheBody Systems Coachina

EXAMS



UNIT 2 - Coursework

UNIT 3 - External

UNIT 5 - Coursework

UNIT 19 - Coursework



ACTIVITIES TO COMPLETE

- 1. Consider you are creating a coaching session describe what you are going to do, (age, number of participants, ability, skills focus etc.)
- 2. Test your current GCSE knowledge by completing some of the guizzes and activities here; www.hoddereducation.co.uk/myrevisionnotesdownloads
- 3. Research the following initiatives; Great British Tennis Weekend, Swim21, Chance to Shine and Active Design by Sport England.



Theatre studies

COURSE DETAILS

Overview

This course provides a balance of practical performing and continuing study, and reading, analysing and acting from recognised texts. You will participate in practical workshops and visit the theatre to see a range of contemporary and traditional performances. You will also devise original performances from creative group improvisation. There are opportunities for students who wish to focus on technical options such as costume, set, lighting or sound design in performance exams.

Component 1:

Theatre Workshop (20% of qualification) You will produce a performance based on a set text and using the focus of a theatre practitioner or a contemporary theatre company. This will be internally assessed by your teacher and externally moderated. A written creative log will support this performance work.

Component 2:

Text in Action (40% of qualification) You will perform 2 pieces of theatre based on a stimulus supplied by WQE; a devised piece using the techniques and working methods of either an influential theatre practitioner or a recognized theatre company (different to Component 1) and an extract from a text in a contrasting style. These performances will be externally assessed by a visiting examiner.

Component 3:

Text in Performance (40% of qualification) This is a written examination based on two set texts, there is a third 'closed book' section with a series of questions based on an extract from prepared text.







Current Affairs

We advise you to get copies of the below set texts (first assessment in 2027) and complete the reading abnd research activities given to you over the summer.

- Brief Encounter Noel Coward adapted by Emma Rice
- Home I'm Darling Laura Wade
- The Book of Dust: La Belle Sauvage Philip Pullman
- Adapted Bryony Lavery

(You may make annotations and ongoing notes in these texts)

One of the key elements of A Level Theatre Studies is wider reading that you will be expected to undertake. Class time will be dedicated to a combination of preactical workshops, rehearsals and, for Component 3, looking at key extracts of our set texts from the POV of an actor, director and designer

Have a look at past paper questions with mark schemes from the EDUQAS website: AS and A Level Drama | Eduqas.



MEDIA LINKS





The Guardian, stage: https://www.theguardian.com/stage
The Independent, theatre: https://www.independent.co.uk/topic/Theatre
BBC Radio 4, Front Row: https://www.bbc.co.uk/programmes/b006qsq5
Other resources, such as The Times and The Stage are good, but are behind a paywall.

USEFUL RESOURCE LINKS



www.ralphthoresby.co.uk/wp-content/uploads/2020/03/Pre-A-Level-reading.pdf

Links from the above doc -

Free playscripts to read online: www.playscripts.com/high-school

Performances/clips: DV8 <u>youtube.com/watch?v=NShJJr1ztkM</u> & <u>youtube.com/watch?v=7c9ToyDs3mY</u>

The Paper Birds: www.thepaperbirds.com/ask-me-anything/-

Practitioners -

Antonin Artaud: www.youtube.com/watch?v=DK_vZuLYHcw & www.youtube.com/watch?v=yn-lvqV36jg

Kneehigh: www.kneehigh.co.uk/

Bertolt Brecht: www.youtube.com/watch?v=c7fqMPDcKXM&t=498s

https://www.youtube.com/watch?v=l-828KgtTkA

Joan Littlewood: www.rsc.org.uk/miss-littlewood/joan-littlewood-rebel-with-a-cause

Steven Berkoff: www.stevenberkoff.com/ Punchdrunk: www.punchdrunk.org.uk

Complicite: www.complicite.org/company.php

Step U-To

