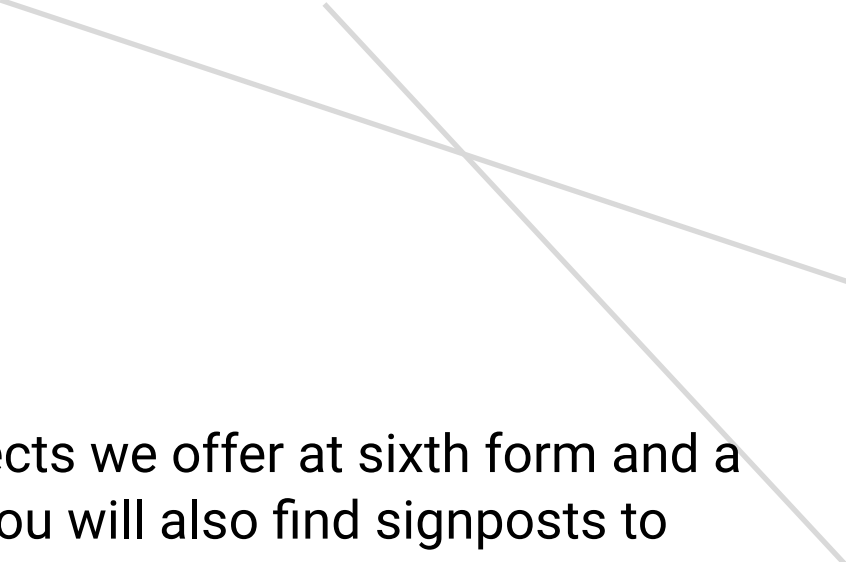


# HIGHAMLANE SIXTH FORM


Preparation for  
Sixth Form  
2020



You will find a list of subjects we offer at sixth form and a brief outline of each. You will also find signposts to subject specific reading and relevant websites.

More detailed information and transition work will be shared with you after the Easter break.

The information below is just the first of many documents we are going to send you to support your transition to sixth form.



## **Fine Art**

OCR: <http://www.ocr.org.uk>

**Subject:** Art and Design

Endorsement Fine Art (A Level: H601)

60% Personal Investigation, 40% Externally Set Task.

Intending to run a gallery visit during the autumn term. TBC.

### **Books:**

- The Art Book
- The 20th Century Art Book
- The Photo Book
- Vitamin P2: A New Perspective on Painting
- Vitamin D2: A New Perspective on Drawing
- isms: Understanding Art
- Illustration Now: Portraits
- Juxtapoz: Illustration
- Juxtapoz: New Contemporary
- Juxtapoz: Hyperrealism

### **Websites:**

- [www.studentartguide.com](http://www.studentartguide.com)
- [www.illustrationweb.com](http://www.illustrationweb.com)
- Gallery websites of which there are many that offer online collections and virtual tours.

## A-Level Biology

Exam board and course code: AQA 7402

<b>Topic 1: Biological Molecules</b> <ul style="list-style-type: none"><li>-Monomers and polymers</li><li>-Carbohydrates</li><li>-Lipids</li><li>Proteins</li><li>-Nucleic acids and important information-carrying molecules</li><li>-ATP</li><li>-Water</li><li>-Inorganic ions</li></ul>	<b>Topic 2: Cells</b> <ul style="list-style-type: none"><li>-Cell structure</li><li>-All cells arise from other cells</li><li>-Transport across cell membranes</li><li>-Cell recognition and the immune system</li></ul>	<b>Topic 3: Organism exchange substances with their environments</b> <ul style="list-style-type: none"><li>-Surface area to volume ratio</li><li>-Gas exchange</li><li>-Digestion and absorption</li><li>-Mass transport</li><li>-</li></ul>	<b>Topic 4: Genetic information, variation and relationships between organisms</b> <ul style="list-style-type: none"><li>-DNA, genes and chromosomes</li><li>-DNA and protein synthesis</li><li>-Genetic diversity can arise as a result of mutation or during meiosis</li><li>-Genetic diversity and adaptation</li><li>-Species and taxonomy</li><li>-Biodiversity within a community</li><li>-Investigating diversity</li></ul>
<b>Topic 5: Energy transfer in and between organisms</b> <ul style="list-style-type: none"><li>-Photosynthesis</li><li>-Respiration</li><li>-Energy and ecosystems</li><li>-Nutrient cycles</li></ul>	<b>Topic 6: Organisms respond to changes in their internal and external environments</b> <ul style="list-style-type: none"><li>-Stimuli, both internal and external, are detected and lead to a response</li><li>-Nervous coordination</li><li>-Skeletal muscles are stimulated to contract by nerves and act as effectors</li><li>-Homeostasis is the maintenance of a stable internal environment</li></ul>	<b>Topic 7: Genetics, populations, evolution and ecosystems</b> <ul style="list-style-type: none"><li>-Inheritance</li><li>-Populations</li><li>-Evolution may lead to speciation</li><li>-Populations in ecosystems</li></ul>	<b>Topic 8: The control of gene expression</b> <ul style="list-style-type: none"><li>-Alteration of the sequence of bases in DNA can alter the structure of proteins</li><li>-Gene expression is controlled by a number of features</li><li>-Using genome projects</li><li>-Gene technologies allow the study and alteration of gene function allowing a better understanding of organism function and the design of new industrial and medical processes</li></ul>

### **AQA A-Level Biology Specification**

<https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402>

Exam board specification for the A-level Biology course

### **CGP Head Start to A Level Biology**

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/biology/bbr71-head-start-to-a-level-biology>

A book designed to help with the significant step up from GCSE to A level.

### **CGP A Level Biology Essential Maths Skills**

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/biology/bmr71-a-level-biology-essential-maths-skills>

A book that outlines all the key maths skills required for the A-level Biology course with worked examples and tasks

### **CGP A Level Biology Revision Guides**

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/biology/bar73-new-a-level-biology-aqa-year-1-2-comple>

Revision guide that covers all of the A-level Biology course

### **CGP A Level Biology Workbooks**

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/biology/baq71-new-a-level-biology-aqa-year-1-2-exam-p>

Exam style questions and activities that will help develop exam technique

### **Useful websites:**

<http://nature.com> The site of the scientific journal

<http://royalsociety.org> Podcasts, news and interviews with scientists about recent scientific developments

<http://www.accessexcellence.org/RC/VL/GG> A web site showing illustrations of many processes of biotechnology

## **Business**

(Edexcel GCE Business 9BS0)

[https://qualifications.pearson.com/content/dam/pdf/A%20Level/Business%20Studies/2015/specification-and-sample-assessment-materials/9781446914694\\_GCE2015\\_A\\_BUS\\_WEB.PDF](https://qualifications.pearson.com/content/dam/pdf/A%20Level/Business%20Studies/2015/specification-and-sample-assessment-materials/9781446914694_GCE2015_A_BUS_WEB.PDF)

### **Units of Work:**

*Theme 1* – Marketing and People

*Theme 2* – Managing Business Activities

*Theme 3* – Business Decisions and Strategy

*Theme 4* – Global Business

### **Subject Specific reading list:**

<https://www.bbc.co.uk/news/business> recommended to keep up with the daily business news

Company of One: Why staying small is the next big thing for business by Paul Jarvis

Good to Great: Why some companies make the leap and others don't by Jim Collins

Grinding it Out: The making of McDonalds by Ray Kroc

### **Websites:**

[www.businessed.co.uk](http://www.businessed.co.uk) (if new to studying business)

[www.tutor2u.net](http://www.tutor2u.net)

[www.senecalearning.com](http://www.senecalearning.com)

<https://www.youtube.com/c/TakingTheBiz>

## **A level Chemistry**

**Exam board and course code:** AQA 7405

<u>Physical Chemistry</u>	<u>Inorganic Chemistry</u>	<u>Organic Chemistry</u>
3.1.1 Atomic structure 3.1.2 Amount of substance 3.1.3 Bonding 3.1.4 Energetics 3.1.5 Kinetics 3.1.6 Chemical equilibria 3.1.7 Redox reactions 3.1.8 Thermodynamics 3.1.9 Rate equations 3.1.10 Equilibrium constant $K_p$ for homogeneous systems 3.1.11 Electrode potentials and electrochemical cells 3.1.12 Acids and bases	3.2.1 Periodicity 3.2.2 Group 2 elements 3.2.3 Group 7 elements 3.2.4 Period 3 elements and their oxides 3.2.5 Transition metals 3.2.6 Reactions of ions in aqueous solution	3.3.2 Alkanes 3.3.3 Halogenoalkanes 3.3.4 Alkenes 3.3.5 Alcohols 3.3.6 Organic Analysis 3.3.7 Optical isomerism 3.3.8 Aldehydes and ketones 3.3.9 Carboxylic acids and derivatives 3.3.10 Aromatic chemistry 3.3.11 Amines 3.3.12 Polymers 3.3.13 Amino acids, proteins and DNA 3.3.14 Organic synthesis 3.3.15 Nuclear magnetic resonance spectroscopy 3.3.16 Chromatography

### **Subject specific reading:**

#### **CGP Head Start to A Level Chemistry**

[https://www.cgpbooks.co.uk/Student/books\\_a\\_level\\_chemistry\\_aqa.book\\_CBR71](https://www.cgpbooks.co.uk/Student/books_a_level_chemistry_aqa.book_CBR71)

A book designed to help with the significant step up from GCSE to A level.

#### **CGP Revision guides and workbooks.**

[https://www.cgpbooks.co.uk/Student/books\\_a\\_level\\_chemistry\\_aqa.book\\_CARQB71](https://www.cgpbooks.co.uk/Student/books_a_level_chemistry_aqa.book_CARQB71)

A useful set of learning aids.

#### **Chemistry In Context. By Hill and Holman. ISBN 978 017 448276 5.**

A very useful book which provides excellent background information to the A level syllabus.

### **Course Related Websites:**

Chemguide. <https://www.chemguide.co.uk/>

Probably the best A level chemistry website out there.

Alevelchemistry. <http://www.a-levelchemistry.co.uk/>

Good notes and an excellent range of worksheets.

Periodic Table Of Videos <http://www.periodicvideos.com/>

Resources from the university of Nottingham.

## **Computer Science**

**OCR H446**

<https://www.ocr.org.uk/qualifications/as-and-a-level/computer-science-h046-h446-from-2015/>

**Component 1 – Paper 1 – Computer Systems (01) 140 marks, 2 hours 30 mins exam worth 40%**

**Component 2 – Paper 2 – Algorithms and programmings (02) 140 marks, 2 hours 30 mins worth 40%**

**Component 3 – Programming Project (03) 70 marks, worth 20%**

### **Books:**

- AS/A Level Computer Science for OCR Student Book, Author: Alistair Surrall and Adam Hamfleet  
ISBN: 9781108412711
- OCR A Level Computer Science (includes AS Level) Author: Sean O'Byrne, George Rouse, Jason Pitt  
ISBN: 9781471839764
- Essential Maths Skills for AS/A Level Computer Science by Victoria Ellis

### **Useful websites to explore**

<https://student.craigndave.org/a-level-videos>

<https://isaacomputerscience.org/home>

<https://www.mrfraser.org/resources/videos/>



## Economics

Exam board: Edexcel

Course: Economics A (9ECO)

Level: A Level

Units:

The Pearson Edexcel Level 3 Advanced GCE in Economics A is structured into four themes and consists of three externally examined papers.

Students build knowledge and understanding of core economic models and concepts in Themes 1 and 2, and then build on this and apply their knowledge to more complex concepts and models in Themes 3 and 4.

Students will need to apply their knowledge and understanding to both familiar and unfamiliar contexts in the assessments and demonstrate an awareness of current economic events and policies.

### **Theme 1: Introduction to markets and market failure**

This theme focuses on microeconomic concepts. Students will develop an understanding of:

- nature of economics
- how markets work
- market failure
- government intervention.

### **Theme 2: The UK economy – performance and policies**

This theme focuses on macroeconomic concepts. Students will develop an understanding of:

- measures of economic performance
- aggregate demand
- aggregate supply
- national income
- economic growth
- macroeconomic objectives and policy.

### **Theme 3: Business behaviour and the labour market**

This theme develops the microeconomic concepts introduced in Theme 1 and focuses on business economics. Students will develop an understanding of:

- business growth
- business objectives
- revenues, costs and profits
- market structures
- labour market
- government intervention.

### **Theme 4: A global perspective**

This theme develops the macroeconomic concepts introduced in Theme 2 and applies these concepts in a global context. Students will develop an understanding of:

- international economics
- poverty and inequality
- emerging and developing economies
- the financial sector
- role of the state in the macroeconomy.

**Assessment:**

There are three externally assessed exams taken at the end of year 13.

- Paper 1: Markets and business behaviour
- Paper 2: The national and global economy
- Paper 3: Microeconomics and macroeconomics

**Subject specific reading:**

- The Economist
- The Week
- BBC News
- Current affairs websites/journals/newspapers/news programmes

**Subject websites:**

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/economics-a-2015.html>

<https://www.tutor2u.net/economics>

**Trips/visits:**

- Attractions in various industry sectors (shopping centres, sports venues, leisure)
- Financial sector in the City of London

Trips are provisional and subject to change.

## **English Language**

**Exam Board:** OCR

**Specification:** H470

**Website Link:**

<https://www.ocr.org.uk/qualifications/as-and-a-level/english-language-h070-h470-from-2015/>

**Course Content:**

### **Component 1 – Exploring Language**

**2 hours 30 minutes written examination in June of Y13**

40% of A-Level

80 marks

**Section A:** Language under the microscope (20 marks)

**Section B:** Writing about a topical language issue (24 marks)

**Section C:** Comparing and contrasting texts (36 marks)

### **Component 2 – Dimensions of Linguistic Variation**

**2 hours 30 minutes written examination in June of Y13**

40% of A Level

80 marks

**Section A:** Child language acquisition (20 marks)

**Section B:** Language in the media – study of power, gender and technology (24 marks)

**Section C:** Language change (36 marks)

### **Component 3 - Non-exam Assessment – Independent Language Research**

20% of A-Level

40 marks

**Section A:** An independent investigation of language (30 marks)

A report of your independent investigation into an aspect of language use (2000-2500 words)

**Section B:** The academic poster (10 marks)

A well-researched and effectively organised overview of your own independent investigation in a form suitable for display at an undergraduate conference for English language research (750-1000 words)

### Provisional Trips:

The British Library in London

### Beginner's Reading List:

**Course Textbook:** OCR A-Level English Language: Student Book (Oxford)

### **Other Useful Texts:**

- A Little Book of Language – David Crystal
- Listen to your Child – David Crystal
- The Adventure of English – Melvyn Bragg

### **Websites to Explore:**

- <https://www.theguardian.com/global/series/buzzwords>  
How does language shape the world around us, and vice versa? Buzzwords explores politics, speech and meaning, with plenty of linguistic tidbits thrown in for good measure.
- <http://englishlangsfx.blogspot.co.uk/>  
EngLangBlog is a blog written for English Language students and teachers. The posts give suggestions for wider reading and direct you to online resources and articles about controversial language issues in the media.
- <http://david-crystal.blogspot.co.uk/>  
A blog written by 'The Expert' in Language and Linguistics, David Crystal.

## **English Literature**

Exam Board: AQA

Specification: English Literature Specification B - 7717

Website Link:

<https://www.aqa.org.uk/subjects/english/as-and-a-level/english-literature-b-7716-7717>

Course Content:

### **Year 12**

#### **Paper 2 – Texts and Genres - Elements of Political and Social Protest Writing**

##### **3 hours written examination (open book)**

40% of A-Level

75 marks

Study of three texts: one post-2000 prose text; one poetry and one further text, of which one must be written pre-1900

Exam will include an unseen passage.

**Section A:** One compulsory question on an unseen passage (25 marks)

**Section B:** One essay question on your set text (*Songs of Innocence and of Experience*) (25 marks)

**Section C:** One essay question which connects two set texts (*The Handmaid's Tale* and *The Kite Runner*) (25 marks)

### **Summer Term / Summer Independent Study**

#### **Non-exam Assessment – Theory and Independence**

Study of two texts: one poetry and one prose text, informed by study of the Critical Anthology

20% of A-Level

50 marks

Two essays of 1,250–1,500 words, each responding to a different text and linking to a different aspect of the Critical Anthology

### **Year 13**

#### **Paper 1 – Literary Genres – Option 1A: Aspects of Tragedy**

##### **2 hours 30 minutes written examination (closed book) in June of Y13**

40% of A Level

75 marks

Study of three texts: one Shakespeare text (*Othello*); a second drama text (*Death of a Salesman*) and one further text (*Tess of the D'Urbervilles*), of which one must be written pre-1900.

**Section A:** One passage-based question on set Shakespeare text (25 marks)

**Section B:** One essay question on set Shakespeare text (25 marks)

**Section C:** Comparing texts: one essay question linking two texts (*Death of a Salesman* and *Tess of the D'Urbervilles*) (25 marks)

#### **Paper 2 – Texts and Genres - Elements of Political and Social Protest Writing**

##### **3 hours written examination (open book)**

40% of A-Level

75 marks

REVISION

### Provisional Trips:

Theatre productions of set texts

Lecture study day at a university (Warwick or London) – a programme of lectures given by experts designed to enhance your knowledge and understanding of literary genres.

### Beginner's Reading List:

**Course Textbook:** English Literature B A/AS Level for AQA Student Book (Cambridge)

### **Set Texts:**

- *The Handmaid's Tale* by Margaret Atwood
- *The Kite Runner* by Khaled Hosseini
- *Songs of Innocence and of Experience* by William Blake
- *Othello* by William Shakespeare
- *Tess of the D'Urbervilles* by Thomas Hardy
- *Death of a Salesman* by Arthur Miller

### **Websites to Explore:**

<https://www.litcharts.com/>

This website contains study guides for the set texts, including text overviews, themes, characters, and how to start analysing the key aspects.

<https://www.bl.uk/>

Head to the 'Discover and Learn' section to explore a range of literature and its contexts.

## **French**

WJEC Eduqas (603/0064/4; 603/0071/1) <https://www.edugas.co.uk/>

### **List of units :**

- A-Level paper 1: Listening, reading and translation (50% of A-Level)
- A-Level paper 2: Written response to work, grammar and translation (20% of A-Level)
- A-Level paper 3: Speaking (30% of A-Level)

A-Level papers will be based on content from the following themes:

- Being a young person in French-speaking society
- Understanding the French-speaking world
- Diversity and difference
- France 1940-1950: the occupation and post-war years
- One book and one film will be studied for A-Level paper 2.
- One Independent Research Project (IRP) will be completed for A-Level paper 3.

### **Subject specific reading list**

- Books: No et moi by Delphine de Vigan
- Films: Les Choristes

### **Subject websites to explore**

- conjugemos.com (grammar practice on tenses)
- quizlet.com (vocabulary based)
- franceinfo (app in French to keep up to date with the French current affairs)

## **Geography**

Exam Board and spec codes with website link - Edexcel A Level Geography 9GEO (Papers 01, /02, /03, /04)

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/geography-2016.html>

### **List of units / NEA / CW**

- Paper 1 (9GEO/01) Dynamic Landscapes (Physical Geography) Exam 30%
- Paper 2 (9GEO/02) Dynamic Places (Human Geography) Exam 30%
- Paper 3 (9GEO/03) Synoptic/Decision making exam 20%
- NEA (9GEO/04) Fieldwork

Compulsory fieldwork for NEA: Norfolk (Autumn term - year 12) Northumberland (Summer term - year 12)

Optional - International trip (previously Iceland)

Subject website to explore:

<https://timeforgeography.co.uk/>



## **Government and Politics AQA**

Firstly students should be watching the news regularly. You will be expected to know about key political events in Britain and in the US taking place at this time. Make sure that you download an American news app on your phone to get alerts about what is happening over there as well.

### **Programmes to watch:**

- News – BBC 24 News is the best.
- Question Time
- Andrew Marr Politics Show on Sundays
- BBC Parliament Live

### **YouTube:**

Crash course US Politics – 50 clips taking you through the course

### **TV Series:**

- Yes Minister and Prime Minister – an old series, but still very relevant
- The Thick of It – UK and US versions (Netflix)
- House of Cards – US and UK versions (Netflix)
- West Wing – again, an old series, but worth watching
- Louis Theroux BBC (Netflix)
- America's Book of Secrets (Netflix)
- Trump, An American Dream (Netflix)
- Dirty Money (Netflix)
- Designated Survivor (Netflix)
- Race for the House (Netflix)
- Knock Down the House (Netflix)
- Get Me Roger Stone (Netflix)
- Reversing Roe (Netflix)
- RBG (Netflix)
- Bobby Kennedy for President (Netflix)
- 13<sup>th</sup> (Netflix)
- Explained (Netflix)

## **Health and Social Care**

OCR Cambridge Technical Extended Certificate Level 3

Scheme Code: 05831

Unit 1 (CW)

Units, 2,3,4 (Exam)

Unit 10 Unit 13 (CW)

Possible trips : visit to support students in a special school.

Guest Speaker on careers in the NHS.

Core Textbook: Cambridge Technicals Level 3 Health and Social Care Ferreiro Peteiro et al Hodder Education

Website:

<https://www.ocr.org.uk/qualifications/cambridge-technicals/health-and-social-care/#level-3>

## History

### AQA A Level History – modules 1C – The Tudors and 2Q – The American Dream.

For 1C – To prepare you for this module it would be brilliant if you could spend your time understanding the context of the time, which means understanding the Wars of the Roses.

#### History Books:

- The House of Beaufort; The Bastard line that captured the crown by Nathan Amin
- Uncrowned Queen; The fateful life of Margaret Beaufort Tudor matriarch by Nicola Tallis
- Red Roses; Blanche of Gaunt to Margaret Beaufort by Amy Licence
- The Wars of the Roses: The Fall of the Plantagenets and the Rise of the Tudors by Dan Jones
- The Brothers York: An English Tragedy by Thomas Penn
- Lancaster and York: The Wars of the Roses by Alison Weir
- Tudor: The Family Story by Leanda de Lisle

#### Historical Fiction:

- Philippa Gregory – The Cousins War – White Queen, Kingmaker's Daughter, Lady of the Rivers, Red Queen and White Princess.
- Conn Iggulden – War of the Roses series

#### TV Series:

- The White Queen and the White Princess – available on Amazon.

#### Online course:

- [Futurelearn.com](https://www.futurelearn.com) – free courses – England in the Time of King Richard III and The Tudors course are very good and will focus you over a period of time with different tasks set throughout the week.

For 2Q it is worthwhile reading up about the political system of the USA (which is covered in Government and Politics). It is also worth thinking about purchasing some key texts which will be attached.

### YouTube Series':

- 1 – BBC Cold War series – 24 episodes. Very good for understanding the relationship between the USA and the USSR.
- 2 – Eyes on the Prize – 18 episodes. Excellent for background on the Civil Rights movement in the USA.
- 3 – The History Channel series 'The President's'. This is a short set of biographies about each president. Start with Harry S Truman and finish with Ronald Reagan.

### History Books:

- 1 – 'The Presidents by Stephen Graubard.
- 2 – American Caesars by Nigel Hamilton
- 3 – Empire of Liberty by David Reynolds
- 4 – The Penguin History of the USA by Hugh Brogan

All of these texts are available on Amazon. They are the four texts strongly recommended. Reading is crucial, this is the perfect time to develop subject knowledge ahead of the course.

## **Law**

**Board: OCR A Level Law H415**

**Assessment: 100% examination (3 exams, 2hrs each)**

**Qualification:** <https://www.ocr.org.uk/qualifications/as-and-a-level/law-h015-h415-from-2017/>

**Specification:** <https://www.ocr.org.uk/Images/315216-specification-accredited-a-level-gce-law-h415.pdf>

### **Units:**

**LAW01 The legal system and criminal law (100 marks)**

Section A the legal system (25 marks)

Section B criminal law (75 marks)

**LAW02 Law making and the law of tort (100 marks)**

Section A law making (25 marks)

Section B the law of tort (75 marks)

**LAW03 Further law (100marks)**

Section A the nature of law (25 marks)

Section B the law of contract (75 marks)

**Provisional trips:** Hodder A Level Law conference; Galleries of Justice; Court Trips  
Subject specific reading list (NOT wider reading)

### **Course textbook 1:**

OCR AS/A Level Law Book 1 Paperback – 30 Jun 2017

by Jacqueline Martin (Author), Nicholas Price (Author)

Paperback: 304 pages

Publisher: Hodder Education (30 Jun. 2017)

Language: English

ISBN-10: 1510401768

ISBN-13: 978-1510401761

### **Additional recommended background reading:**

Letters to a Law Student: A guide to studying law at university Paperback – 31 Oct 2017 by Nicholas J McBride (Author)

Paperback: 392 pages

Publisher: Pearson; 4 edition (31 Oct. 2017)

Language: English

ISBN-10: 1292149248

ISBN-13: 978-1292149240

The Secret Barrister: Stories of the Law and How It's Broken Paperback – 4 Apr 2019

by The Secret Barrister (Author)

Paperback: 320 pages

Publisher: Picador; Main Market edition (4 April 2019)

Language: English

ISBN-10: 1509841148

ISBN-13: 978-1509841141

### **Subject websites to explore (no more than 3)**

<https://www.thelawyerportal.com/blog/top-10-websites-for-law-students/>

<https://thestudentlawyer.com/>

<https://www.bbc.co.uk/news> (particularly articles relating to law, politics, human rights and technology)

## **Maths**

Edexcel – 9MA0

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html>

Units - Pure, Statistics and Mechanics

Opportunity to enter Senior Maths Challenge

[www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)

[www.drfrostmaths.co.uk](http://www.drfrostmaths.co.uk)

<https://undergroundmathematics.org/>

## **Further Maths**

Edexcel 9FMA0

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html>

Units - Core Pure, Further Statistics and Decision Maths

Opportunity to enter Senior Maths Challenge

[www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)

[www.drfrostmaths.co.uk](http://www.drfrostmaths.co.uk)

<https://undergroundmathematics.org/>

## **Media Studies**

### **Exam Board and spec codes with website link**

WJEC Eduqas (603/1149/6)

<http://www.eduqas.co.uk/media/d3fbs2s3/eduqas-a-level-media-studies-spec-from-2017-e-02-03-2020.pdf>

### **Units**

#### **Component 1** - Media Products, Industries and Audiences

Section A: Analysing Media Language and Representation

Section B: Understanding Media Industries and Audiences

#### **Component 2** - Media Forms and Products in Depth

Section A – Television in the Global Age

Section B – Magazines: Mainstream and Alternative Media

Section C – Media in the Online Age

#### **Component 3** - Cross-Media Production - *Non exam assessment*

An individual cross-media production based on two forms in response to a choice of briefs set by WJEC, applying knowledge and understanding of the theoretical framework and digital convergence.

### **Provisional trips**

British Film Institute – study days

### **Subject specific reading list**

Bell, C & Johnson, L (2017), WJEC/Eduqas Media Studies for A Level Year 1 & AS – ISBN- 9781911208105

Gauntlett, D. (2013) Media, Gender and Identity: An Introduction – ISBN- 9780415396615

Bell, C & Johnson, L (2020) WJEC/Eduqas Media Studies for A Level AS and Year 1 Revision Guide – ISBN- 9781911208877

### **Websites**

<https://www.bfi.org.uk/education-research>

<https://www.bbc.co.uk/bitesize/subjects/ztnygk7>

<http://www.eduqas.co.uk/media/fwkpruvvm/eduqas-a-level-media-studies-sams-from-2017-eng.pdf>

## **Physical Education**

OCR A level PE (H555)

<https://www.ocr.org.uk/qualifications/as-and-a-level/physical-education-h155-h555-from-2016/>

### **Units:**

Physiological factors affecting performance (2hr exam - 30%)

Psychological factors affecting performance (1hr exam - 20%)

Socio-cultural issues in physical activity and sport (1hr exam - 20%) and Performance in physical education (NEA - 15% practical/coaching performance and 15% analysis of performance for improvement)

Youtube channel: <https://www.youtube.com/channel/UCChU8cYZY5xpQ7pBIklu3Xw>



## A level Physics

Exam board and course code: AQA 7407/8

Units:

It is highly recommended you take A-LEVEL MATHEMATICS with A-level Physics

Topic	Spec. ref.	Course content/Topic content
Topic 1: Measurements and	<b>3.1.1</b>	Use of SI units and their prefixes
	<b>3.1.3</b>	Estimation of Physical quantities
	<b>3.1.2</b>	Limitations of physical measurements
Topic 2: Particles and Radiation	<b>3.2.1.1</b>	Constituents of the Atom
	<b>3.2.1.2</b>	Stable and unstable nuclei
	<b>3.2.1.3</b>	Particles, antiparticles and photons
	<b>3.2.1.4</b>	Particle interactions
	<b>3.2.1.6</b>	Quarks and Anti-quarks
	<b>3.2.1.5</b>	Classification of particles
	<b>3.2.1.7</b>	Application of conservation laws
	<b>3.2.2.1</b>	The photoelectric effect
	<b>3.2.2.2</b>	Collisions of electrons with atoms
	<b>3.2.2.3</b>	Energy levels and photon emission
	<b>3.2.2.4</b>	Wave-particle duality
Topic 3 – Waves	<b>3.3.1.1</b>	Progressive waves
	<b>3.3.1.2</b>	Longitudinal and transverse waves
	<b>3.3.1.3</b>	Principle of superposition of waves and formation of stationary waves ( <b>Required Practical 1</b> )
	<b>3.3.2.1</b>	Interference
	<b>3.3.2.2</b>	Diffraction
	<b>3.3.2.3</b>	Refraction at a plane surface ( <b>Required Practical 2</b> )
Topic 4: Mechanics and Materials	<b>3.4.1.1</b>	Scalars and vectors
	<b>3.4.1.2</b>	Moments
	<b>3.4.1.3</b>	Motion along a straight line ( <b>Required Practical 3</b> )
	<b>3.4.1.4</b>	Projectile motion
	<b>3.4.1.5</b>	Newton's Laws of Motion
	<b>3.4.1.6</b>	Momentum
	<b>3.4.1.7</b>	Work, energy and power
	<b>3.4.1.8</b>	Conservation of energy
	<b>3.4.2.1</b>	Bulk properties of solids
	<b>3.4.2.2</b>	The Young modulus ( <b>Required Practical 4</b> )
Topic 5 – Electricity	<b>3.5.1.1</b>	Basics of electricity
	<b>3.5.1.2</b>	Current-voltage characteristics
	<b>3.5.1.3</b>	Resistivity ( <b>Required Practical 5</b> )
	<b>3.5.1.4</b>	Circuits
	<b>3.5.1.5</b>	Potential divider
	<b>3.5.1.6</b>	Electromotive force and internal resistance ( <b>Required Practical 6</b> )

### **Subject specific reading:**

#### **CGP Head Start to A Level Physics**

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/physics/pbr71-head-start-to-a-level-physics>

A book designed to help with the significant step up from GCSE to A level.

#### **CGP Essential Maths Skills for Physics**

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/physics/pmr71-a-level-physics-essential-maths-skills>

#### **CGP Revision guides and workbooks.**

Revision Guide & Workbook - <https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/physics/parqb71-new-complete-revision-and-exam-practice>

A useful set of learning aids.

### **Course Related Websites:**

Maths and Physics Tutor - <https://www.physicsandmathstutor.com/>

Flipped Around Physics - <https://www.flippedaroundphysics.com/>

Isaac Physics - <https://www.flippedaroundphysics.com/>

Youtube Websites to subscribe to:

- Dr Physics A
- Crash Course Physics
- Science Shorts
- Khan Academy

## **PSYCHOLOGY**

Exam Board and spec codes with website link: AQA SPEC 7182 A LEVEL <https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182>

3 exams (2 hours each)

### **Subject content**

#### **Compulsory content**

1 Social influence

[https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-as/introductory-topics-in-psychology#Social Influence 1 1 1](https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-as/introductory-topics-in-psychology#Social%20Influence%201%201%201)

\* 2 Memory

[https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-as/introductory-topics-in-psychology#Memory 1 1 2](https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-as/introductory-topics-in-psychology#Memory%201%201%202)

\* 3 Attachment

[https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-as/introductory-topics-in-psychology#Attachment 1 1 3](https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-as/introductory-topics-in-psychology#Attachment%201%201%203)

\* 4 Psychopathology

[https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-as/psychology-in-context#Psychopathology 1 1 4](https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-as/psychology-in-context#Psychopathology%201%201%204)

\* 5 Approaches in Psychology

[https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/psychology-in-context#Approaches in Psychology 1 2 1](https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/psychology-in-context#Approaches%20in%20Psychology%201%202%201)

\* 6 Biopsychology

[https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/psychology-in-context#Biopsychology 1 2 2](https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/psychology-in-context#Biopsychology%201%202%202)

\* 7 Research methods

[https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/psychology-in-context#Research Methods 1 2 3](https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/psychology-in-context#Research%20Methods%201%202%203)

\* 8 Issues and debates in Psychology

[https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Issues and Debates in Psychology 1 3 1](https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Issues%20and%20Debates%20in%20Psychology%201%203%201)

Optional ONE TOPIC WILL BE ASSESSED FROM EACH OPTIONAL SECTION

### Option 1

- \* 9 Relationships

<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Relationships> 1 3 2

- \* 10 Gender

<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Gender> 1 3 3

- \* 11 Cognition and development

<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Cognition and Development> 1 3 4

### Option 2

- \* 12 Schizophrenia

<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Schizophrenia> 1 3 5

- \* 13 Eating behaviour

<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Eating Behaviour> 1 3 6

- \* 14 Stress

<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Stress> 1 3 7

### Option 3

- \* 15 Aggression

<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Aggression> 1 3 8

- \* 16 Forensic Psychology

<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Forensic Psychology> 1 3 9

- \* 17 Addiction

<https://www.aqa.org.uk/subjects/psychology/as-and-a-level/psychology-7181-7182/subject-content-a-level/issues-and-options-in-psychology#Addiction> 1 3 10

**Provisional trips - fieldwork / Iceland/ America / theatre /lectures / seminars etc**

**Subject specific reading:** The Complete Companion: AQA Psychology Year 1 and AS Student Book  
(Complete Companion Psychology) 4th Edition by Cardwell and Flanagan

ISBN-13: 978-0198338642, ISBN-10: 0198338643

**Subject websites to explore**

- [https://www.youtube.com/results?search\\_query=tutor2u+psychology](https://www.youtube.com/results?search_query=tutor2u+psychology)
- <https://www.simplypsychology.org/a-level-psychology.html>
- <https://revisionworld.com/a2-level-level-revision/psychology-level-revision>

## **Sociology**

AQA GCE Sociology

**Scheme Code:** 7192

### **Units:**

- Education With Methods in Context
- Families and Households
- Beliefs in Society
- Crime and Deviance
- Theory and Methods

**Provisional trips:** visit to Crimiknowledge conference, Revision Conference

**Core Textbooks:** AQA Sociology Year 1, AQA Sociology Year 2 Robb Webb and Keith Trobe -Napier Press

### **Websites:**

<https://www.aqa.org.uk/subjects/sociology/as-and-a-level>

[www.revisesociology.com](http://www.revisesociology.com)