



*Learn, grow and achieve together*

# Sixth Form Options 2018–19



The Quality in Careers Standard >>>>

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# Introduction

You are now approaching a critical point in your education and career preparation. It is vital therefore that you are fully informed and aware of the choices available to you and the implications for your future career prospects as a result of choices you make.

Within this pack we have enclosed information which will enable you to select the appropriate progression route for you once you have completed your GCSE exams.

## **Quality in Careers Standard**

On December 15th 2017 the school was accredited with the Quality in Careers Standard. This is a national standard, which recognises the high standard of careers advice and guidance provision at Colton Hills.

The Accreditation Board commended the prominent profile of the careers offer across the school, along with strong support at senior leader and governor level. Students were very positive about the help they receive to help them to make career and learning decisions at each key transition stage.

Attaining the standard means your child will receive appropriate and independent advice and guidance to ensure they are on an achievable pathway towards a career that fulfils their interests and talents.

# Entry Requirements

From Summer 2018 the new GCSE grading system 1—9 will be used for all subjects except Product Design, Hospitality and Textiles., which will continue to allocate grades A\* - G.

It is critical you understand that a grade 5 and above is required to be considered a pass grade in Maths and English.

## Entry Requirements

Entry requirements for all subjects from September 2018 are: **5 passes at grade 5 and above including English and possibly Maths.**

For Product Design, Hospitality or Textiles then grade C or above is required to count towards your 5 passes.

For BTEC subjects a Level 2 Pass or above is required for the subject to count towards your 5 passes.

At least a grade 6 or Merit is required to study that subject at A 'Level and if you select a Science subject you must have attained a minimum of two grade 6's in Science subjects at GCSE.

If you select a new subject you must have gained the minimum qualifications for entry.

For subject specific entry requirements see page 9 in this document.

# Choices

All students are expected to select three subjects. You will be provided with individual advice and guidance on the appropriate courses you should take according to your GCSE results. You may combine course types (e.g. A 'Levels and B'TEC's) and if a combination is not available in your chosen subjects then we will try to find the provision for you in that subject in one of our sixth form partner schools.

If we do not have enough students opting for one of our subjects listed, we may need to source that subject for you at a nearby school. If the subject you wish to opt for is not in this booklet, then you need to discuss this with Mrs Lockley, Mr Gittins, Mr Ryan or Mr Berry and we may be able to access that subject for you in a partner school.

## **Which Courses?**

Colton Hills Community School is one of the most successful sixth forms in Wolverhampton and is able to offer a wide variety of subjects and qualifications which enable our students to progress successfully into Higher Education or take alternative career pathways.

The curriculum available from September 2018 will include a range of A 'Level courses and BTEC courses, which are called vocational courses and have an A 'Level equivalence.

# English and Maths

## **These subjects are critical to you!**

If you do not gain at least a grade 4 in these subjects in year 11 you must continue to study them at *GCSE* until you gain a grade 4 or are at least 18.

Failure to have a grade 5 in these subjects will significantly hinder your sixth form progress and will also still be required if you apply for an apprenticeship or any college course.

Many universities are beginning to require grade 6 in Maths English at *GCSE* as a prerequisite for all their courses. You need to be aware of this and understand it now in year 11 if you are to meet requirements for your university application at the end of year 13.

Many students in recent years have wanted to improve their Maths and English results when they begin to look at university courses as it is only then that they realise just how important English and Maths at *GCSE* have become.

**Make sure you avoid these problems by passing English and Maths this year.**

# Timetable and courses

You will be applying for a university course start in 2020. As all A level courses are now two years with indications are that universities will start to look far closer at GCSE grades when offering places.

**Make sure you have the very best GCSE grades!**

## Your Timetable:

The timetable structure in our sixth form is divided, as in many other Wolverhampton schools, into five main learning blocks.

A Block	B Block	C Block	D Block	E Block
Monday morning	Monday afternoon	Tuesday afternoon	Tuesday morning	All day Wednesday
Thursday afternoon	Thursday morning	Friday morning	Friday afternoon	

The courses on offer are listed on the opposite page with the requirements for entry onto the course.

## Sixth form Post 16 Subject Requirements 2018 Colton Hills Community School

Subject	5 GCSE pass Grades	Maths 5-9	English Lang 5-9	Other information
Art	Yes		Yes preferred	Grade 6 or above in Art
Biology	Yes	Yes	Yes	Two grade 6's, or above, in Biology with one other Triple Science or in Combined Science
BTEC Business Double	Yes	Yes	Yes	If 5 GCSE pass grades include a BTEC this should be passed at Merit.
Chemistry	Yes	Yes	Yes	Two grade 6's, or above, in Chemistry with one other Triple Science or in Combined Science.
Computer Science	Yes	Yes	Yes	A grade 6 or above in Computer science at GCSE
Economics	Yes	6+	Yes	Maths and English Language at grade 5 or above.
English Literature	Yes		6+	English Language and Literature at grade 6 or above.
German	Yes		Yes	A grade 6 or above in German.
Geography	Yes		Yes	A grade 6 or above in Geography
History	Yes		Yes	A grade 6 or above in History
BTEC Health and Social Care Double and Single	Yes		Yes	If 5 GCSE pass grades include a BTEC this should be passed at Merit.
BTEC ICT Double and Single	Yes		Yes	If 5 GCSE pass grades include a BTEC this should be passed at Merit.
Mathematics	Yes	6+	Yes preferred	Maths at grade 6+.
Physics	Yes	Yes	Yes	Two grade 6's, or above, in Physics with one other Triple Science or in Combined Science.
Psychology	Yes	Yes	6+	English Language at 6+ and Maths at 5+
RE	Yes		Yes	Grade 6 or above in RE
Sociology	Yes	Yes	6+	English Language at grade 6 or above
BTEC Sport	Yes		Yes	If 5 GCSE pass grades include a BTEC this should be passed at Merit.
BTEC Applied Science	Yes		Yes preferred	At least two grade 5's from Triple Science or combined Science.

# PSHE

PSHE is delivered in six half days through out the year when students will be off timetable to attend the sessions. The sessions provide students with the opportunity to consider their role in society as young adults and will cover many elements including; sex and relationship education (SRE) politics, voting, driving, finance, staying safe, applying to university, CV writing, interview skills, apprenticeships, and study skills.

## Choosing subjects

You need to think very carefully which subjects you wish to study next year.

Discuss your thoughts with your parents, subject teachers and mentors. Speak with our Connexions advisor. If you already know what you want to do when you leave school, have a look at the entry requirements for that career path and ensure you are choosing subjects which will allow you to progress along that path.

If you know what you want to study at university check what subjects and grades the universities require from students.

### **Plans for when you leave school**

It may seem very early to consider your longer term future plans however you do need to start to consider what you will do on leaving school at the end of the sixth form. There are many alternatives you may consider such as: going into employment, taking an apprenticeship, training programmes or seeking a place at university.

In the current social and economic climate in England it is becoming highly competitive to access many progression routes after school.

If you wish to go to university you must begin to find out what the subject requirements are for university access.

## Government changes

You will no doubt be aware that the current government has made many significant changes in education and qualifications. Some of the biggest changes are in post 16 learning. You no longer have the opportunity to take exams during the course of the sixth form but instead must take all the exams at the end of the two-year programme at the end of year 13.

We will adhere very strictly to our entry criteria outlined within this booklet when considering students for acceptance onto courses in the sixth form. This is totally in your interest as you must not get to the end of the two-year period and not be successful in your chosen subjects. You must also be capable of gaining grades which will enable progression to university or alternative destinations desirable to you.

Parents wishing to discuss the choices of any student are welcome to come into school at any time during the option process and discuss any questions they may have.

## Careers guidance

Our Connexions advisor Emma Lopez is available in school every Tuesday and Thursday to provide further advice and guidance and information about careers as well as off-site learning. If you need to meet with her to discuss your thoughts and choices then please see Mrs Lopez or Mr Berry to make an appointment.

Please go through the information in this pack thoroughly and if you have any questions at all talk with your subject teachers, or your mentors who will direct you to specialist advice.

We look forward to working with you for the next two years in one of the best performing sixth forms in Wolverhampton.

C. J. Lockley  
Deputy Headteacher

# Important Dates

**January 11<sup>th</sup>**  
**March 12<sup>th</sup>**

Year 11 Parents evening  
Options assembly and start of advice  
and guidance process

**March 30<sup>th</sup>**  
**August 23<sup>rd</sup>**

Deadline for completing option form  
GCSE results day!

## Useful resources

University admissions website where you can search courses and find out the academic requirements.

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

SACU offers an independent and impartial source of careers information to students, parents and teachers.

[sacu-student.com/](http://sacu-student.com/)

The National Careers Service provides information, advice and guidance to help you make decisions on learning, training and work.

[nationalcareersservice.direct.gov.uk](http://nationalcareersservice.direct.gov.uk)

Get In Go Far is a website dedicated to apprenticeships of all levels.

Giving information, case studies and links to applying for apprenticeships

<http://www.getingofar.gov.uk/>

Start website for developing a personal skills profile, career profiles, apprenticeships and universities. Register using code: 81773.

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

Grofar website for information, opportunities, work experience, etc. Log in details emailed to students on the school email system.

<https://auth.grofar.com/>

**Emma Lopez Connexions advisor in school  
Tuesdays and Thursdays every week.**

# Subject Information Sheets

The following pages give information on all the subjects available in the sixth form.

Subjects labelled BTEC are level 3 vocational qualifications equivalent to 1 or 2 A level's.



# Applied Science — GCE

## What will you be learning?

Everyone taking this qualification will study three mandatory units:

- Principles and Application of Science I
- Practical Scientific Procedures and Techniques
- Science Investigation Skills.

Students choose one option unit from a group, which has been designed to support choices in progression to applied science courses in HE. The option units cover content areas such as:

- physiology of human body systems
- biological molecules and metabolic pathways
- applications of inorganic chemistry
- electrical circuits and their application.

## Who would enjoy it?

If you are interested in science and progressing towards a science career then this course is for you. The course give a broad coverage of science enabling you to move into careers involving biology, chemistry or physics..

## What happens when you finish?

Further study at higher education or apprenticeship. The requirements of the qualification mean you will develop the transferable and higher-order skills that are highly regarded by both HE and employers.

## Need more information

<http://qualifications.pearson.com/en/qualifications/btec-nationals/applied-science-2016.html>

See Mr Berry.

## Assessment

42% is internally assessed.  
58% is externally assessed by examination and set coursework tasks.

## Student quotes

The course enables us to learn about science as a whole. The subjects constantly change making it really interesting.





# Art — A level

## What will you be learning?

You will learn how to develop your Art and Design skills further in a wide range of materials and techniques from 3D work and traditional painting and drawing to Photoshop. You will analyse artists' work in depth and show how it has influenced your own work at a higher level. You will be taught new ways of developing your own ideas creatively and how to refine them into exciting final outcomes in your choice of media.

Year 12 work initially focuses on skills and techniques before moving on to the Personal Investigation unit. The exam unit in Year 13 allows students to choose one of five starting points from which to develop their second project, resulting in a fifteen hour exam in April/May.

## Who would enjoy it?

Anyone who likes drawing, designing and making and enjoys exploring Art and being creative and individual in their approach.

## What happens when you finish?

You can go on to do a BA Hons degree in any area of Art and Design leading to careers such as; Architect, Graphic designer, Interior designer, Multimedia Programmer, Illustrator, Teacher/Lecturer, Fashion designer, Jewellery designer and many more...

## Need more information?

<http://www.aqa.org.uk/subjects/art-and-design/as-and-a-level/art-and-design>

## Assessment

60% coursework (personal Investigation unit -starts in year 12), 40% exam in year 13.

## Student quotes

Art 'A' level is very personalised and you can explore whatever topics you like.

This course opens the door to a wide range of careers in the creative industries.





# Biology — A level

## **What will you be learning?**

Biology involves the study of a wide range of exciting topics, ranging from the way the body works to the study of ecosystems and from microorganisms to mammoths. The course is designed to encourage you to develop an enthusiasm for biology, learn practical skills alongside an understanding of concepts and principles and build a solid foundation of knowledge and skills for studying biology in Higher Education. The course is delivered in laboratories where a range of practical activities take place and is taught by two subject specialist teachers. As part of the course students have entered national competitions and visited Chester Zoo to enhance learning.

## **Who would enjoy it?**

Studying Biology allows you to explore life from the very small to the global. Biology is for those fascinated by the world around them but also for those looking to improve their logical thinking and problem solving. We will develop a range of skills; analytical, creative and practical, as well as a strong grounding in maths and literacy.

## What happens when you finish?

You will be perfectly placed to go onto a degree in the Biological Sciences or any degree course or career which prizes analytical and logical thinking.

## Need more information

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

## Assessment

Linear, 100% exams at the end of year 13, with practical skills assessed as pass or fail

## Student quotes

A Level Biology is not simply Biology, it's about how life works and life is a struggle, but the struggle is worth the knowledge.

I was a bit unsure about Biology, since I chose it just for the sake of learning how to carry out practicals, but now I feel excited about topics and learning new stuff.





# Business — BTEC

## What will you be learning?

At Colton Hills we work closely with many different businesses and organisations to provide students with real experiences of the Business world.

In Business we will encourage personal development of knowledge and skills relevant to the business world through practical participation in a range of vocational business activities. We will encourage you to develop your people, communication, planning and team working skills. You will have the opportunity to develop your business ideas, understand what makes a business successful and plan to start your own business. We will further develop your business ideas with outside consultants.

## Who would enjoy it?

All students have the opportunity to develop their business ideas. We are looking for creative students who wish to express themselves in a professional business environment. You will enjoy working in teams and expressing your business ideas to an audience.

## What happens when you finish?

You could go on to study at University on a Business related Degree course.

## Need more information

<http://www.edexcel.org.uk/subjects/btec/business>

See Mr Kennedy

Miss Ijaz

Miss Kouser

## Assessment

25% Exam

75% coursework

## Student quotes

I love Business because of the changing Environment.

Business is a key to success.





# Chemistry — A level

## **What will you be learning?**

Chemistry is a branch of physical science that studies the composition, structure, properties and change of matter. The A level chemistry course covers aspects of physical chemistry, inorganic chemistry and organic chemistry. You will learn about how we can calculate how fast a reaction is happening, why elements react in the way they do and the mechanism behind organic reactions. The course is designed to encourage you to develop an enthusiasm for chemistry, learn practical skills alongside an understanding of concepts and principles and build a solid foundation of knowledge and skills for studying chemistry in Higher Education. The course is delivered in laboratories where a range of practical activities take place and is taught by two subject specialist teachers.

## **Who would enjoy it?**

Studying chemistry allows you to explore life from the very small to the global. Biology is for those fascinated by the world around them but also for those looking to improve their logical thinking and problem solving. We will develop a range of skills; analytical, creative and practical, as well as a strong grounding in maths and literacy.

## What happens when you finish?

You will be perfectly placed to go onto a degree in chemistry or any sciences. Also degree courses, or career, which prizes analytical and logical thinking.

## Need more information

<http://www.aqa.org.uk/subjects/science/as-and-a-level/chemistry-7404-7405>

See Mr Berry.

## Assessment

Linear, 100% exams at the end of year 13. three external examinations and practical skills assessed as pass or fail

## Student quotes

Chemistry helps me understand why reactions happen and why we can use some elements but not others.

Chemistry helps me on other subjects as I learn how to apply what I have learnt.





# Computer Science — A level

## What will you be learning?

During the course in A Level Computer Science you will not only be learning advanced computer programming skills but also all of the theory underlying today's most exciting technologies. The course will give you a firm understanding of how computers work right from electronic circuitry through to today's advances in robotics and virtual reality.

## Who would enjoy it?

If you enjoy discovering new things, good problem solvers, students with a desire to understand how the digital world functions. This course does not require you to be computer programmers from the outset, but anyone who has an interest in programming or website creation. This is where you need to be.

## What happens when you finish?

This course will ideally prepare students for a future as a computer programmer, systems analyst or a whole host of other job roles. If your intention is to study Computer Science at university then this course will give you all of the required knowledge to make your transition to higher education.

## Need more information

<http://bit.ly/1xWaRO4>

See Mr Byrne

## Assessment

80% external examination

20% problem solving examination.

## Student quotes

I'm glad I took A Level Computer Science even though I didn't do GCSE.

Computer Science is a much more in-depth version of the GCSE.



COMPUTER SCIENCE



# Economics— A level

## What will you be learning?

- Are you interested in how the world around you works?
- Why do some people earn more than other people?
- Why do people buy certain products?
- What are the causes of unemployment and how can we solve it?

The approach at Colton Hills to A Level Economics is to apply economic theories to support analysis of current economic problems and to appreciate that economics influences all of our every day choices.

## Who would enjoy it?

Any student who has an interest in local, national and international affairs and wants to explore any solutions to the many problems they face.

We are looking for creative students who wish to explore their interest in Economics.

## What happens when you finish?

You could go on to study at University on an Economics/Business related degree course or go straight into employment.

## Need more information

<http://www.aqa.org.uk/subjects/Economics>

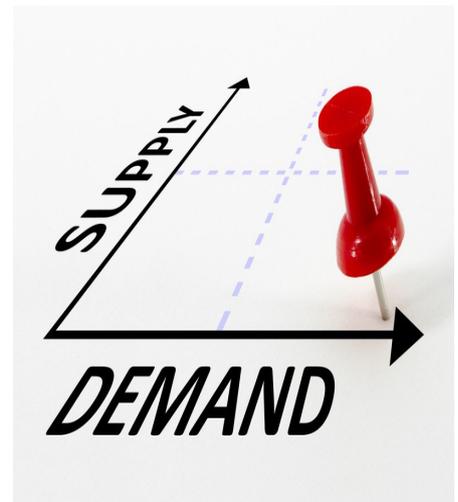
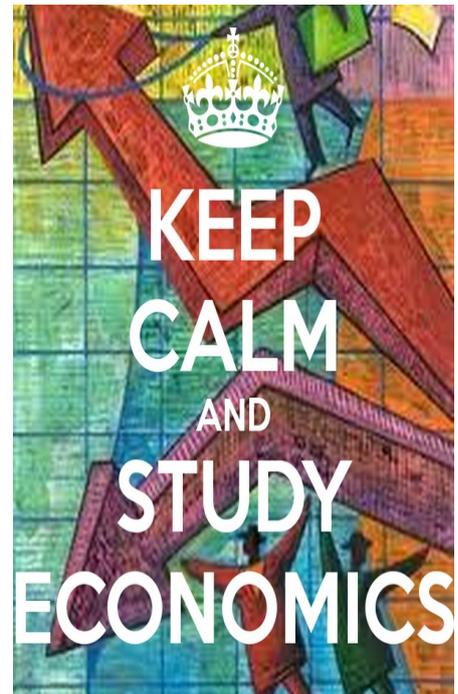
See Mr Kennedy

## Assessment

100% Exam

## Student quotes

The importance of economics in the current climate is undeniable.





## English Literature — A level

### **What will you be learning?**

Over the course of two years you will be studying a range of texts to prepare you for the English Literature A- Level examination. The course will allow you to; explore and understand a wide range of texts, develop the valuable transferable skills of sustained research and composition, have freedom of choice with regards to texts for study in the non examined assessment component and choose to write creatively if you so wish.

You will cover a range of genres including; One play by William Shakespeare, The selected poems of a pre- 1900 writer such as Christine Rossetti, The play of a pre- 1900 playwright such as Oscar Wilde' s 'An Ideal Husband'.

### **Who would enjoy it?**

Students who enjoy reading and are prepared to undertake background reading on the set text's writer's influences and research alternate critiques / viewpoints about the set texts and their writers. If you like to put forward well argued, independent points of view about the literature you encounter then definitely consider it as an option that will open doors in all sorts of ways.

## What happens when you finish?

For many degree courses and careers such as teaching and journalism a good grade at English Literature is highly valued. It shows university tutors and potential employers you have the prerequisite skills to undertake research and present information to any audience in both a logical and compelling fashion.

## Need more information

See your English tutors or go

<http://www.ocr.org.uk/qualifications/as-a-level-gce-english-literature-h072-h472-from-2015>

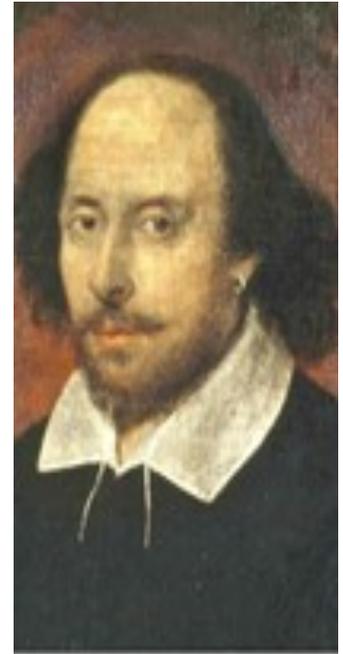
## Assessment

80% Examination and 20% coursework

## Student quotes

It was difficult to start with but now really enjoying it and it is helping me in my other subjects.

It is a huge jump from what we did at GCSE but really makes me think about how I put a point forward.  
Love the reading.





# Geography — A level

## **What will you be learning?**

Within the Physical Geography side of the course, you will learn about the processes that shape our coastlines and you will discuss the possible solutions for human intervention in order to protect our cities from coastal flooding. You will also extend your knowledge of natural hazards, including the nature and impact of volcanic, seismic and storm hazards.

In terms of Human Geography, you will study global systems and global governance, including the role of transnational companies and the distribution of trade agreements around the world. You will also study socio-economic issues associated with urbanisation, including the sustainable management of urban areas in the UK and on an international scale.

Finally, you will complete a four-day residential fieldwork investigation, which will link to your 4,000-word piece of coursework.

## **Who would enjoy it?**

If you enjoyed GCSE Geography and you are willing to read extensively around the topics, deepen your understanding of case studies and you are prepared to develop your ability to write synoptically, you are a perfect candidate for this course.

## What happens when you finish?

A Level Geography is a combination of humanities and science. It is a highly respected A Level by all Universities and other higher education providers and will provide you with a range of transferrable skills to take forward.

## Need more information

<http://www.aqa.org.uk/subjects/geography/as-and-a-level/geography-7037>

## Assessment

80% Exam in June of year 13  
20% Fieldwork investigation essay (4,000 words) in year 13

## Student quotes

I have developed so many skills from data and statistical analysis, to synoptic essay writing skills.

I love that one day you learn about volcanoes and the next day you learn about geopolitics and international development.





# German — A level

## What will you be learning?

The A level German course builds on the knowledge, understanding and skills gained at GCSE. The focus is on language, culture and society. In the first year aspects of German Society and Culture are studied. In the second year aspects of German politics, the arts and German history are studied. You will study German films and novels. You will develop your skills of speaking, listening, reading and writing to a high level through a range of challenging tasks, including translation, summarising and interpreting.

## Who would enjoy it?

If you enjoy the study of language, want to know how language works, and enjoy grammar, and are also prepared to work hard you will enjoy the course.

## What happens when you finish?

An A level in German is a valuable qualification for many careers and is a highly desirable qualification to get into university to study a range of subjects. It supports study of both Science and Arts subjects.

## Need more information

Speak to your German teacher or visit the AQA website: <http://www.aqa.org.uk/subjects/languages/as-and-a-level/german-7662/subject-content>

## Assessment

100% exam at the end of two years' study.

Speaking, Listening, Reading and Writing skills are tested.

## Student quotes

This is a new A level course. You will be the first to study the course.





## What will you be learning?

The new BTEC specification is designed to make you not only university ready but also career ready. To achieve a diploma in Health and social care; which is equivalent to two A levels, there are 8 modules. Two of which are exam based, and one which is synoptic based. The extended certificate, which is equivalent to one A level, consists of four modules. Two of which are exam based. There is also an opportunity to do work experience relevant to your study.

## Who would enjoy it?

Anyone who is interested in a career within the health and social care arena. The course develops independent research which is essential for success at university, so it would suit anyone who is interested in finding out more about legislation, inequality within society, public health, and current practice within health and social care.

## What happens when you finish?

You could do an apprenticeship, or apply for a university course which is related to health and social care., which will make you one of the most employable graduates in the UK.

## Need more information

<http://qualifications.pearson.com/en/qualifications/btec-nationals/health-and-social-care-2016.html>

## Assessment

A combination of external and internal based assessments

## Student quotes

The health and social care course prepares you for apprenticeships.

It teaches you transferable skills like communication, health & safety and rights.





# History—A Level

## What will you be learning?

### **Challenge and Transformation: Britain**

**1851 - 1964:** Examine how Britain consolidated its position as economic world leader and the reforms and issues that presented themselves as modern Britain was made. The birth of the NHS, new media and mass immigration after the Second World War.

**Italy and Fascism 1900 - 1945:** Students examine in detail the factors which brought Mussolini to power, the changes he made in Italy and the impact of Fascism on the wider world.

**The British Empire 1764-1880:** How far did British rule benefit the people who lived in the empire? Students choose their own coursework question based on the question above such as why did the people of Australia benefit from the empire more than the people of India?

## Who would enjoy it?

Students who are keen to have the knowledge to understand the world and the problems it faces today. Anyone who wants to develop a range of skills such as evaluating evidence, developing and presenting arguments and the ability to think independently and understand human behaviour.

## What happens when you finish?

A Level History opens the door to further study at university - particularly for courses such as Law. A Level History is useful for such careers as: Lawyer, barrister, police, media, government, management, social services, teaching, civil service, journalism, secret service and national security.

### Need more information

<http://www.aqa.org.uk/subjects/history/as-and-a-level/history-7041-7042>

See Mr Gittins or Miss Lester

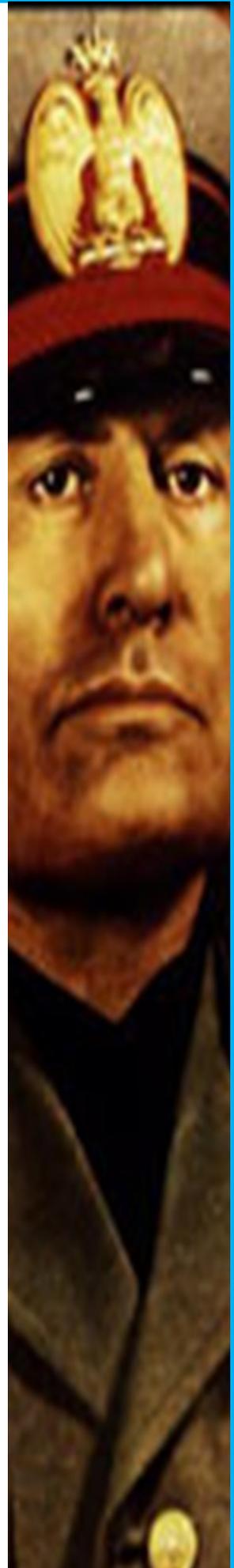
### Assessment

Two exams worth 40% each at the end of two years. One 3500 word piece of coursework worth 20%.

### Student quotes

A Level History taught me how to analyse, come to my own conclusions and see things from different points of view.

A Level History doesn't just teach you loads of valuable skills, it opens your eyes to the world around you.





## What will you be learning?

During the course of BTEC ICT (Business Information Systems) you will be learn all of the theory underlying today's most exciting technologies. You will learn how technology can help improve your employability in the future. The course will give a firm understanding of how technology is utilised in today's modern society both in leisure and business.

## Who would enjoy it?

If you enjoy discovering new things, good problem solvers and have a desire to understand how the digital world functions.

The BTEC Level 3 provides an ideal progression route for students who studied BTEC ICT Level 2 through to higher education.

## What happens when you finish?

This course will ideally prepare you for a future in today's society where technology interfaces every aspect of your life both at work and at home. If your intention is to study ICT at university then this course will give you all of the required knowledge to make your transition to higher education.

## Need more information?

<http://bit.ly/1xWaRO4>

See Mrs Johal

## Assessment

42% is internally assessed by your teacher through assignments.

58% is externally assessed by examination and set coursework tasks.

## Student quotes

I'm really glad that I moved onto BTEC Level 3 as my Level 2 qualification really prepared me!





# Maths — A level

## What will you be learning?

A-level Mathematics builds upon the skills you have learnt at GCSE. It is broken down into 3 areas of Mathematics which are Pure Maths, Mechanics and Statistics.

Pure Maths includes: Proof, Algebra & functions, Coordinate Geometry, Sequences & Series, Trigonometry, Exponentials & Logarithms, Differentiation, Integration, numerical Methods and Vectors

Mechanics includes: Quantities & units in mechanics, Kinematics, Forces & Newton's laws and Moments

Statistics includes: Statistical sampling, data presentations & interpretation, Probability, Statistical distributions and Hypothesis Testing

## Who would enjoy it?

Mathematics is well-respected by universities and employers. Mathematics skills and qualifications are often interesting and rewarding. People who have studied mathematics are in the fortunate position of having an excellent choice of career. Mathematics leads to in demand careers in science, engineering and manufacturing.

## What happens when you finish?

You can go on to study a vast range of Maths and also non Maths related degrees. The skills you learn will prepare you well for the future whichever field of study you choose

## Need more information

<http://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2008.html>

See your Mathematics teachers

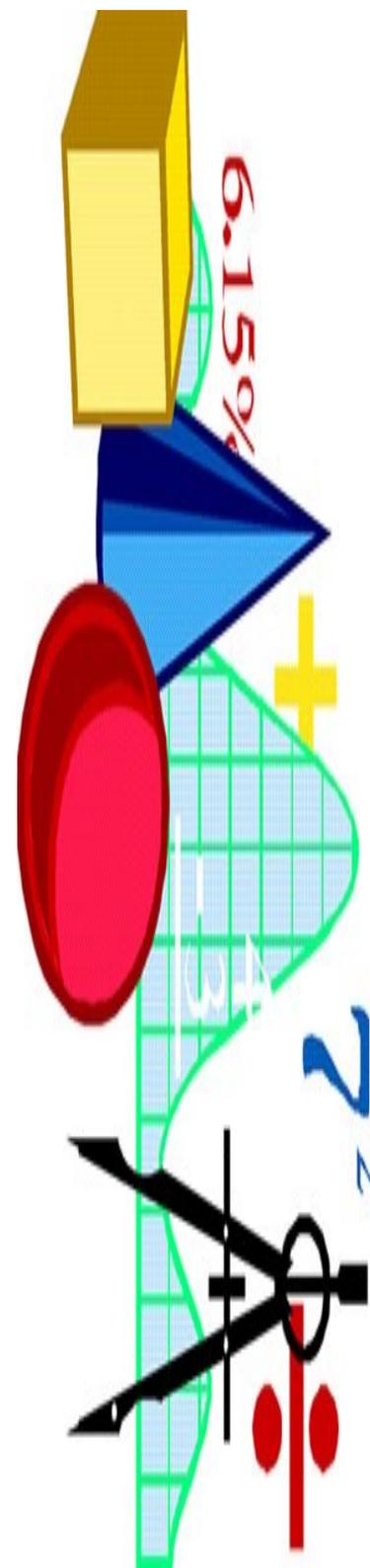
## Assessment

A100% Exam in June of Year 13

## Student quote

Maths helps me think logically and systematically. You have to work hard to succeed in Maths.

Maths helps me think logically and systematically. You have to work hard to succeed in Maths.





# Physics — A level

## What will you be learning?

Physics covers topics such as sub-atomic particles, quantum phenomena and electricity. You will also study mechanics, including Newton's laws of motion, materials and the properties of waves. The course is designed to encourage you to develop an enthusiasm for physics, learning practical skills alongside an understanding of concepts and principles, whilst building a solid foundation of knowledge and skills for studying physics in Higher Education. The course is delivered in laboratories where a range of practical activities take place and is taught by a subject specialist teacher.

## Who would enjoy it?

Studying Physics allows you to appreciate the mechanics of life., from sub atomic particles to how the Universe works.

A strong grounding in Maths, data handling and using formulae will be coupled with the development of your problem solving and application skills.

## What happens when you finish?

You will be perfectly placed to go onto a degree in Physical Sciences or any degree course or career which prizes mathematical and logical thinking.

## Need more information

<http://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408>

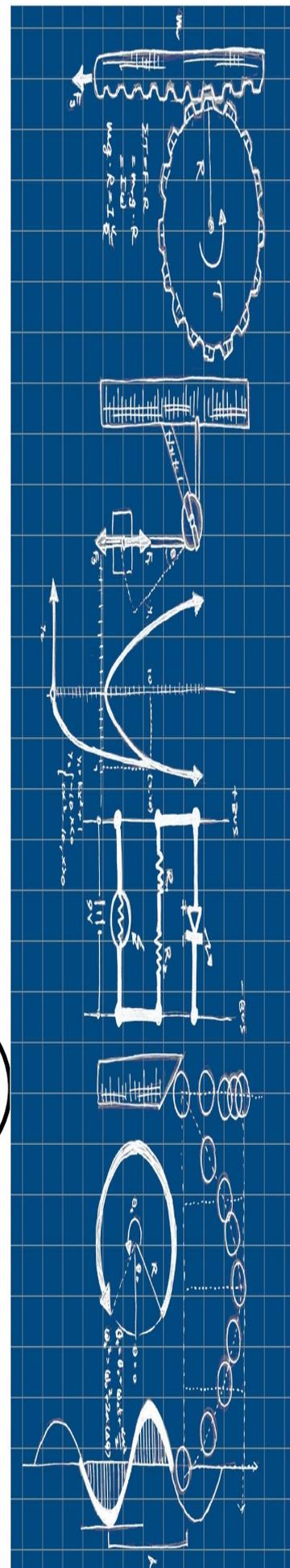
## Assessment

Linear, 100% exams at the end of year 13, with practical skills assessed as pass or fail

## Student quotes

A level Sciences are not only very useful in the field of Science but also give you so much more knowledge of other subjects like history, maths, English and geography.

I have chosen A Level as it was required for my degree, but I also enjoy learning why things happen and how they happen.





# Psychology — A level

## What will you be learning?

In a-level psychology you will cover a variety of topics. In the first year of the course you will research methods; investigating and conducting psychological research with an array of methodologies and techniques, you will also study psychological themes through core studies; key psychological concepts, both of a classic and contemporary nature. The second year of the course delves into issues in mental health, child psychology and criminal psychology. Psychology explores the way the mind works and certain patterns of behaviour through scientific enquiry.

## Who would enjoy it?

If you are interested in the way people think and why they behave a certain way, then psychology is for you. You will be employing your existing curious mind, along with a sound mathematic and science skill base to unearth the secrets of the human mind.

## What happens when you finish?

Psychology will open up many degree routes and career pathways for you, including (but not limited to)- teaching, law, business, social work and criminal investigation.

## Need more information

<http://www.ocr.org.uk/qualifications/as-a-level-gce-psychology-h167-h567-from-2015>

See Mr Bodin

## Assessment

You will sit three formal examinations at the end of the two year course.

## Student Quotes

I've really enjoyed this course and it's helped me to view the world differently.

Studying psychology has influenced my decision to pursue a career in occupational health.





## Religious Education — A level

### **What will you be learning?**

Religious Studies is divided into three areas (all have a separate exam). We start off in year twelve examining Sikh beliefs and teachings. You will also explore philosophical and ethical ideas. These are then expanded upon in year 13. This course gives you the opportunity to look at some contemporary answers to 'does God exist?' There are no right and wrong answers which makes this subject interesting if you like to question ideas and debate!

### **Who would enjoy it?**

Anyone who likes to think, ask questions and debate motions.

You do NOT have to have a religious faith to take this A level but you do need to have an open mind to lots of different viewpoints! You will need to be an independent learner and be prepared to read around each topic,

### **What happens when you finish?**

You may want to study Philosophy or Religious studies at university. An A level qualification in RS is recognised by all universities whether you want to study medicine, law or business!

## Need more information?

Follow this web link to the EDUQAS page.

<http://www.eduqas.co.uk/qualifications/religious-studies/as-a-level/>

See Mrs Calvert and Mrs Gidda

## Assessment

100% exam in Year 13

Sikhism = 33%

Philosophy = 33%

Ethics = 33%

## Student quotes

I chose RE because I enjoyed it at GCSE! The RE teachers are really approachable.

RE complemented my other A levels. It is a fascinating subject that makes you think deeply.





# Sociology — A level

## What will you be learning?

In A-level sociology you will cover an array of topics. In the first year of the course you will study families & households; looking at roles within the family and how these have changed over time, you will also study education with research methods; how does the education system relate to society, how do sociologists research society? The second year of the course looks at global development; how western countries impact development elsewhere, and crime and deviance; looking at why some individuals are targeted more by the criminal justice system than others. Sociology looks at life around you from the viewpoints of others.

## Who would enjoy it?

If you enjoy asking "why?" then sociology is right for you. The desire to understand the meanings behind taken for granted phenomenon will lead to you succeeding within sociology.

## What happens when you finish?

Sociology will open up many degree routes and career pathways for you, including (but not limited to)- teaching, law, police officer and social work.

## Need more information

<http://www.aqa.org.uk/subjects/sociology/as-and-a-level/sociology-7191-7192>

See Mr Bodin.

## Assessment

You will sit three formal examinations at the end of the two year course.

## Student quotes

Sociology has opened my eyes to the world around me.

Being able to write an essay in sociology has set me on the right path for a degree





## What will you be learning?

- Anatomy and Physiology- students will explore how the skeletal, muscular, cardiovascular and respiratory systems function and the fundamentals of the energy systems.
- Fitness training and programming for health, sport and well being. During this unit students will gain an understanding of how training methods and fitness programming can be used to improve health and well being.
- Professional development in the sports industry. During this unit students will explore the skills and knowledge required for a career in the sports industry.
- Practical sports performance. Students will study the skills, techniques, tactics and rules of selected sports.

## Who would enjoy it?

Those students who have taken BTEC Sport at Level 2, who enjoy participating in Sport and would like to develop there theory knowledge around aspects of sport.

## What happens when you finish?

Students may decide to enter employment in the sport and leisure sector or study an aspect of sport in higher education.

## Need more information

See your PE teacher.

[http://qualifications.pearson.com/content/dam/pdf/BTEC-Nationals/Sport/20161/specification-and-sample-assessments/9781446938096\\_BTEC\\_Nat\\_ExtCert\\_Sport\\_SPEC\\_Iss2C.pdf](http://qualifications.pearson.com/content/dam/pdf/BTEC-Nationals/Sport/20161/specification-and-sample-assessments/9781446938096_BTEC_Nat_ExtCert_Sport_SPEC_Iss2C.pdf)

## Assessment

Examination (33%)

External written assessment through a set task. (33%)

Internal assessment through a coursework portfolio. (33%)













