



Sixth Form 2020-21

Subject Options



Dear Students

We are delighted to introduce you to our friendly and vibrant co-educational sixth form, where we will support you to achieve your very best and prepare you for life beyond school. We will inspire you to aim high so you can go in your chosen direction.

Teaching at The Holt is excellent; you will benefit from our dedicated specialist teachers, their extensive subject knowledge and their drive to inspire you to enjoy and achieve in your chosen areas of study. By selecting The Holt you will be selecting a sixth form that has a proven academic record; the A level results in 2019 were excellent with 30.% A*-A and 61% A*- B.

Throughout your time in the sixth form, we want to grow your self-confidence and independence so you know you can do whatever you want with hard work, commitment and guidance. By choosing to study at The Holt you will be presented with unique opportunities to

- Widen your experiences by involving yourself with the many clubs and competitions on offer
- Develop your leadership skills and build meaningful relationships with younger students through our diverse enrichment opportunities
- Receive expert information, advice and guidance, which will allow you to progress to the best universities, apprenticeships or employment.

There are many other reasons for choosing to study at The Holt School Sixth Form

- A wide range of subjects without the restriction of option blocks
- Experienced sixth form teachers, many of whom are examiners.
- Small class sizes, so plenty of time to ask questions, hold discussions and work collaboratively.
- One to one coaching to improve study skills
- Supervised study sessions
- A dedicated personal tutor
- In –depth preparation for post-18 options
- Excellent facilities, including a private study room, kitchen, conference and study room.

Being part of a sixth form in a school brings with it unique opportunities to belong and contribute to our school community through classroom attachment, House activities, charity events and being part of the student leadership team that runs Student Council. There are many opportunities to take part in local, regional and national competitions such as debating, Young Enterprise and science Olympiads. Subjects run trips and visits to enhance learning and all these activities contribute to the strong sense of belonging our students have to The Holt.

To gain entry to The Holt School Sixth Form you must achieve a minimum of 5 GCSE grades 9-4 as well as the criteria for the individual subjects that are detailed below.

Application forms can be found on the school website along with the prospectus. The deadline for applications is Friday 6th December 2019. Late applications will be accepted but we may not be able to offer places on courses that are already full.

We are delighted that you are considering the Sixth Form at The Holt and please do not hesitate to contact the sixth form team if you have any further questions.

Yours sincerely

Mrs A Kennedy and Mrs K Pearce
Co-Headteachers

A Level Subjects

Subject	Head of Department	Email Address
Art and Design: Fine Art	Mrs Skeates	c.skeates@holt.wokingham.sch.uk
Biology	Mrs Whitehouse	g.whitehouse@holt.wokingham.sch.uk
Business	Mrs Styles	m.styles@holt.wokingham.sch.uk
Chemistry	Mrs Nayyar	r.nayyar@holt.wokingham.sch.uk
Computer Science	Mrs Dearing	k.dearing@holt.wokingham.sch.uk
Economics	Mrs Styles	m.styles@holt.wokingham.sch.uk
English Literature (Comedy and Crime)	Mrs McClelland	r.mcclelland@holt.wokingham.sch.uk
French	Mr Darby	<u>r.darby@holt.wokingham.sch.uk</u>
Further Maths	Mrs Tearle	m.tearle@holt.wokingham.sch.uk
Geography	Mr Marrison	t.marrison@holt.wokingham.sch.uk
Politics	Mr Furlong	j.furlong@holt.wokingham.sch.uk
History (Tudors and Nazism)	Mr Furlong	j.furlong@holt.wokingham.sch.uk
Maths	Mrs Tearle	m.tearle@holt.wokingham.sch.uk
Music	Mr Gray	a.gray@holt.wokingham.sch.uk
Physical Education	Mrs Bolton	s.bolton@holt.wokingham.sch.uk
Physics	Dr Lewis	m.lewis@holt.wokingham.sch.uk
Psychology	Mrs Dakovic	<u>m.dakovic@holt.wokingham.sch.uk</u>
Sociology	Mrs Dakovic	m.dakovic@holt.wokingham.sch.uk
Spanish	Mrs Stoker	n.stoker@holt.wokingham.sch.uk
Design & Technology – Product Design	Mrs Williams	t.williams@holt.wokingham.sch.uk

BTEC Course

Subject	Head of Department	Email Address
Health & Social Care OCR Level 3	Mrs Dakovic	m.dakovic@holt.wokingham.sch.uk

Sixth Form Team

Job Title	Name	Email Address
Head of Sixth Form Teaching & Learning	Mrs Kemp	a.kemp@holt.wokingham.sch.uk
Head of Sixth Form Pastoral	Mrs Bellis	j.bellis@holt.wokingham.sch.uk
Sixth Form Coordinator	Mrs Calliss	j.calliss@holt.wokingham.sch.uk

Subject Name	Art and Design: Fine Art AQA
Entrance Criteria	Minimum of a 6 in GCSE for Art

Year One Content

Component 1: Personal Investigation

Students will explore a range of techniques and themes before focusing on a personal investigation. The investigation should demonstrate an ability to research a theme, drawing it to a conclusion in the form of a final piece. You will be required to write a 1000-3000 word essay to support this project.

Year Two Content

Component 2: Externally set Assignment

Having chosen a starting point set by the exam board, students are required to produce a sustained project that explores the theme in a personal manner.

The final piece will be produced during a 15 hour exam that takes place over 3 days.

How the course is assessed

Component 1: 60% Coursework

Component 2: 40% Coursework

Future Career Opportunities

There are many opportunities for careers in the media and communications industries, teaching, fashion/textiles design and in museums and art galleries. An art and design degree prepares students for the new creative economy.

Subject Name	Biology A OCR
Entrance Criteria	6 in GCSE Mathematics AND 6-6 in Combined Science OR 6 in Separate (Triple) Biology GCSE

Year One Content
<p>Module 1: Development of practical skills in biology Skills of planning, implementing, analysis and evaluation</p> <p>Module 2: Foundations in biology Cell structure, biological molecules, enzymes, biological membranes, cell division, diversity and organisation</p> <p>Module 3: Exchange and transport Exchange surfaces, transport in animals, transport in plants</p> <p>Module 4: Biodiversity, evolution and disease Communicable diseases, disease prevention, immune system, biodiversity, classification and evolution</p>

Year Two Content
<p>Module 5: Communication, homeostasis and energy Communication, homeostasis, excretion, neural and hormonal communication, plant and animal responses, photosynthesis and respiration</p> <p>Module 6: Genetics, evolution and ecosystems Cellular control, inheritance, genomics, biotechnology, ecosystems, populations and sustainability</p>

How the course is assessed
<p>Modules 1, 2, 3 and 5 and 1, 2, 4 and 6 assessed by 2 written examination papers 2¼ hours in duration A further synoptic examination paper 1½ hours in duration</p> <p>A teacher assessed practical endorsement A 3 day field trip is held in the October of year 13, which costs approximately £280. There is also the opportunity to attend a conservation conference at Marwell Zoo and A Level Biology Live in London.</p>

Future Career Opportunities
<p>Biology leads to many careers – directly (biological sciences, medicine, veterinary science, teaching) and indirectly (from sports science to law – specialising in a scientific area).</p>

Subject Name	Business AQA
Entrance Criteria	Preferably a 5 in Maths GCSE

Year One Content
<ol style="list-style-type: none"> 1. What is business? 2. Managers, leadership and decision making 3. Decision making to improve marketing performance 4. Decision making to improve operational performance 5. Decision making to improve financial performance 6. Decision making to improve human resource performance

Year Two Content
<ol style="list-style-type: none"> 1. Analysing the strategic position of a business 2. Choosing strategic direction 3. Strategic methods: how to pursue strategies 4. Managing strategic change

How the course is assessed
<p>There are 3 units which assess the whole subject content and are equally weighted</p> <p>Unit 1: This is a mix of multiple choice, short answer questions, calculations and essays</p> <p>Unit 2: This has three data response compulsory questions worth approximately 33 marks each and made up of three or four part questions</p> <p>Unit 3: This has one compulsory case study followed by approximately six questions</p>

Future Career Opportunities
<p>Business studies combined with other A levels is an ideal foundation for a variety of degree courses. This can then open the door to a wide range of professions including Accountancy, Marketing, Personnel, Operations, Retail Management, Journalism and Events Management.</p>

Subject Name	Chemistry A OCR
Entrance Criteria	6 in GCSE Mathematics AND 6-6 in Combined Science OR 6 in Separate (Triple) Chemistry GCSE

Year One Content
<p>Module 1: Development of practical skills in chemistry* Skills of planning, implementing, analysis and evaluation</p> <p>Module 2: Foundations in Chemistry Atomic structure, quantitative chemistry: formulae, equations amount of substance and the mole</p> <p>Module 3: Periodic Table and Energy Periodic and group properties, enthalpy changes and their determination rates of reaction, reversible reactions and chemical equilibrium</p> <p>Module 4: Basic concepts and Hydrocarbons Nomenclature and formula representation, functional groups, organic reactions and Isomerism, aliphatic hydrocarbons, alcohols and haloalkanes, organic practical skills and organic synthesis and instrumental analytical techniques</p>

Year Two Content
<p>Module 1: Development of practical skills in chemistry* Skills of planning, implementing, analysis and evaluation.</p> <p>Module 5: Physical chemistry and transition elements Rate equations, orders of reaction, the rate determining step, equilibrium constants, K_c and K_p, acid–base equilibria including pH, K_a and buffer solutions, lattice enthalpy and Born–Haber cycles, entropy and free energy and electrochemical cells.</p> <p>Module 6: Organic chemistry and Analysis Aromatic compounds, carboxylic acids and esters, organic nitrogen compounds: amines and amino acids, polymerisation: addition polymers and condensation polymers, synthetic organic chemistry and further development of practical skills and the importance of modern analytical techniques in organic analysis.</p>

How the course is assessed
<p>2 written examination papers 2¼ hours in duration A further synoptic examination paper 1½ hours in duration *A teacher assessed practical endorsement</p>

Future Career Opportunities
<p>Medicine, Veterinary Science, Dentistry, Engineering, Biochemistry, Pharmaceutical science, Forensics, Food science, Geology, Environmental science, Law, Accountancy, Education, Nano scientist, Nursing, Midwifery, Physiotherapy, Sports science, Material scientist, Journalist, Patent Attorney, Toxicology, Polymer scientist and many more due to the transferable skills that you gain!</p>

Subject Name	Computer Science AQA
Entrance Criteria	Preferably a 5 in GCSE Mathematics and GCSE Computing

Content
<p>Component 01 – Computer Systems: Students are introduced to the internal workings of the CPU, data exchange, software development, data types and legal and ethical issues. The resulting knowledge and understanding will underpin their work in component 03. It covers:</p> <ul style="list-style-type: none"> The characteristics of contemporary processors, input, output and storage devices Types of software and the different methodologies used to develop software Data exchange between different systems Data types, data structures and algorithms Legal, moral, cultural and ethical issues <p>Component 02 - Algorithms and programming This builds on component 01 to include computational thinking and problem-solving. It covers:</p> <ul style="list-style-type: none"> What is meant by computational thinking (thinking abstractly, thinking ahead, thinking procedurally etc.) Problem solving and programming – how computers and programs can be used to solve problems Algorithms and how they can be used to describe and solve problems. <p>Programming Language We will continue to develop your knowledge of the python programming language from GCSE as well as introducing you to a few others. The language chosen for the Programming project (03) should be appropriate to the task chosen. There are several programming languages which the exam board will accept which are outlined in the specification.</p>

Non-exam Assessment - Programming Project
Students are expected to apply the principles of computational thinking to a practical coding programming project. They will analyse, design, develop, test, evaluate and document a program written in a suitable programming language. The project is designed to be independently chosen by the student and provides them with the flexibility to investigate projects within the diverse field of computer science.

How the course is assessed
Assessment comprises two exams with a range of short and long answer questions as well as a project, which is referred to as the programming project. The examinations make up 80% of the final grade and the programming project, 20%. An awareness of the application of computer science in the real world will be required as is the desire to solve problems and create program.

Future Career Opportunities
A Computer Science A level helps to prepare you for many courses at university and can be the qualification that you may need to secure a Level 3 apprenticeship. It is a highly academic subject that will help you to develop the problem solving and algorithmic skills needed in areas such as Mathematics, Science, Economics as well as, of course, Computer Science related areas.

Subject Name	Economics A EDEX
Entrance Criteria	Preferably a grade 6 in Maths GCSE

Year One Content
Theme 1: Introduction to markets and market failure (microeconomics) <ul style="list-style-type: none"> • Nature of economics • How markets work • Market failure • Government intervention Theme 2: The UK economy - performance and policies (macroeconomics) <ul style="list-style-type: none"> • Measures of economic performance • Aggregate demand and aggregate supply • National income and economic growth • Macroeconomics objectives and policy

Year Two Content
Theme 3: Business behaviour and the labour market (microeconomics) <ul style="list-style-type: none"> • Business growth and objectives • Costs, revenue and profit • Market structures • Labour market Theme 4: A global perspective (macroeconomics) <ul style="list-style-type: none"> • International economics and emerging and developing economies • Poverty and inequality • The financial sector • The role of the state in the macroeconomy

How the course is assessed
There are 3 units for this A level: Unit 1 examines themes 1 and 3 (microeconomics), Unit 2 examines themes 2 and 4 (macroeconomics) and Unit 3 examines all 4 themes. Units 1 and 2 are each worth 35% and Unit 3 is worth 30% of the A level.

Future Career Opportunities
Economics is an ideal foundation for a variety of degree courses such as Economics, Modern Languages, Geography, History, Law, Business, Accountancy, Maths or Management. These degrees open the door to a wide range of professions including Accountancy, Marketing, Politics, Journalism, Teaching and even becoming an Economist.

Subject Name	English Literature B (comedy and crime) AQA
Entrance Criteria	Preferably a GCSE grade 6 or above in English language and literature

Year One Content
<p>Literary Genres</p> <p>In your first year of study, you will explore the literary genre, comedy, in depth and understand how it has developed over time. For this, you will study a range of texts including <i>Twelfth Night</i> by Shakespeare text, a play and a range of poetry.</p>

Year Two Content
<p>Texts and Genres AND Theory and Independence</p> <p>In your second year of study, you will explore a new literary genre which encompasses an exciting range of texts including: a modern novel, a 19th century text and a range of poetry.</p> <p>You will also complete two pieces of independent coursework. After learning about critical theories such as feminism, Marxism and aestheticism, you will use these ideas to deconstruct one poem and one prose text which you choose yourself.</p>

How the course is assessed
<p>Literary Genres - A closed-book examination worth 40%</p> <p>Texts and Genres - An open-book examination worth 40%</p> <p>Non-exam Assessment: Theory and Independence. A coursework portfolio comprising of two</p>

Future Career Opportunities
<p>Higher education courses in law, history, journalism and publishing. As well as potential careers in teaching, advertising, marketing, digital media, public relations and public sector roles in the civil service.</p>

Subject Name	French AQA
Entrance Criteria	6 or higher in French GCSE

Year One Content
<p>Aspects of French-speaking Society: current trends</p> <ul style="list-style-type: none"> • The changing family • Cyber-society • Volunteering in modern society <p>Artistic Culture in the French-speaking world:</p> <ul style="list-style-type: none"> • Pride in French heritage • Modern French music • French cinema • Study of a French language film – Un long dimanche de fiançailles

Year Two Content
<p>Aspects of French-speaking society: current issues</p> <ul style="list-style-type: none"> • Positive features of a diverse society • Life for the marginalised • How criminals are treated <p>Aspects of political life in the French-speaking world</p> <ul style="list-style-type: none"> • Teenagers, the right to vote and political commitment • Demonstrations, strikes – who holds the power? • Politics and immigration • Study of a French language text: Joseph Joffo Un sac de billes

How the course is assessed
<p>Paper 1- Listening, Reading and Writing (100 marks) 2 1/5 hours 50% of the final grade</p> <p>Paper 2- Writing (80 marks) 2 hours 20% of the final grade</p> <p>Paper 3- Speaking (60 marks) 21-23 minutes 30% of the final grade</p>

Future Career Opportunities
<p>Every business, workplace, town and city in Britain needs people who can work, speak and write French. Possibilities for Travel around France and the French-speaking world are endless. Trade, Law, Business, Academia, Commerce, Sales and Marketing, B2B Marketing, Hotel/Restaurant/Catering, Travel and Tourism, Politics, Translation and Interpreting, Travel Writing are all sectors which need French speakers, as are the institutions of government e.g. the Civil Service or the Diplomatic Corps.</p>

Subject Name	Further Maths EDEX
Entrance Criteria	Grade 8 in Maths GCSE

Year One Content

The course comprises two compulsory pure mathematics modules and two optional modules. The current optional modules taught are Further Statistics 1 and Decision 1. The teaching of these modules are split across the two years.

Further Pure Mathematics. Topics covered: Proof; Complex numbers; Matrices; Further algebra and functions; Further calculus; Further vectors.

Further Statistics 1 - Statistical distributions, Hypothesis testing, Chi squared tests, Poisson Distribution.

Decision Mathematics 1 - Algorithms and graph theory, Critical path analysis, Linear programming, Transportation problems, Allocation (assignment) problems,

Year Two Content

Further Pure Mathematics. Topics covered: Proof; Complex numbers; Matrices; Further algebra and functions; Further calculus; Further vectors.

Further Statistics 1 - Statistical distributions, Hypothesis testing, Chi squared tests, Estimation, Confidence intervals, Quality of tests and estimators.

Decision Mathematics 1 - Algorithms and graph theory, Critical path analysis, Linear programming (Simplex Algorithm), Transportation problems, Allocation (assignment) problems,

How the course is assessed

The course assessment is 100% examination, all taken at the end of the course

Further Pure Mathematics 1: 90 minutes (25%)

Further Pure Mathematics 2: 90 minutes (25%)

Paper 1 and Paper 2 may contain questions on any topics from the Pure Mathematics content.

Further Statistics 1: 90 minutes (25%)

Decision 1: 90 minutes (25%)

Future Career Opportunities

Studying further mathematics opens the door to careers that use mathematical models to predict responses to stimuli or to predict future growth. Careers such as Banking, Investment, Actuarial Science, Engineering, Meteorology, Biological and Physical Sciences and Pharmaceuticals. Students that wish to read mathematics at university should study further maths, but it is also useful for any subject with a large mathematical content such as Engineering, Physics or Computer Sciences.

Subject Name	Geography AQA
Entrance Criteria	Preferably a 6 in GCSE Geography

Year One Content

Physical Geography

Coasts - This section focuses on coastal zones, which are dynamic environments in which landscapes develop by the interaction of winds, waves, currents and terrestrial and marine sediments.

Water and Carbon Cycle - This section focuses on the major stores of water and carbon at or near the Earth's surface and the dynamic cyclical relationships associated with them.

Human Geography

Changing Places - This section focuses on people's engagement with places, their experience of them and the qualities they ascribe to them, all of which are of fundamental importance in their lives.

Global Governance - This section focuses on globalisation the economic, political and social changes associated with technological and other driving forces which have been a key feature of global economy and society in recent decades.

Year Two Content

Physical Geography

Hazards – This section focuses on the lithosphere and the atmosphere, which intermittently but regularly present natural hazards to human populations, often in dramatic and sometimes catastrophic fashion.

Human Geography

Population and Resources - This section explores the relationships between key aspects of physical geography and population numbers, population health and well-being, levels of economic development and the role and impact of the natural environment.

How the course is assessed

Component 1 Physical Geography Exam

- 40% of A Level 2 hour 30 minutes written examination
- Multiple choice, structured short and extended questions, plus an essay

Component 2 Human Geography Exam

- 40% of A Level 2 hour 30 minutes written examination
- Multiple choice, structured short and extended questions, plus an essay

Component 3 Geographical Investigation

- Individual investigation which must include data collected in the field. Can be human or physical.
- 3,000 - 4,000 words 20% of A level

Component 3 - the 'Geographical Investigation' requires that the students undertake 4 days of field work. This will be conducted on a compulsory residential fieldtrip to Swanage and surrounding area. The estimated cost of this trip will be approximately £350.

Future Career Opportunities

Law, Banking and Finance, Environment Agency, Marketing, Accountancy, Surveyor, Architect or any management position. Statistics show that compared to other subjects, Geography graduates are among the most employable.

Subject Name	Politics EDEX
Entrance Criteria	Preferably a grade 5 in GCSE English OR other humanities subjects such as History, Geography or Economics.

Year One Content

The lessons will be equally divided between:

Component 1: UK politics

1. Political Participation, students will study: democracy and participation, political parties, electoral systems, voting behaviour and the media.
2. Core Political Ideas, students will study: Conservatism, liberalism, socialism.

Component 2: UK government

1. UK Government, students will study: the constitution, parliament, Prime Minister and executive, relationships between the branches.
2. Optional Political Ideas, students will study: Feminism.

Year Two Content

The lessons will be divided up in the following way: 70% component 3, and 30% component 2

Component 2: Non-core Political ideas

Students will study Feminism.

Component 3: Theories of Global Politics

Sovereignty and globalisation, global governance, political and economic, global governance, human rights and environmental, power and developments, regionalism and the European Union.

How the course is assessed

There are three written examinations. One for component 1, 2 and 3. Each written examination is worth 33.3% of the final grade.

Future Career Opportunities

Politics grants you a range of transferable skills and versatile knowledge that can lead to a whole host of career opportunities, such as the Civil Service, Local Council, Journalism, Business, Marketing, Public Affairs Consultant, Charity Administrator, Human Rights Organisations, Accountancy, Law, Management, Media, Public Sector work and Local MP/work in Parliament.

Subject Name	Health and Social Care OCR Level 3 Cambridge Technical Extended Certificate
Entrance Criteria	

Content	
We offer two different courses OCR Level 3 Cambridge Technical Diploma (topics on the left) and OCR Level 3 Cambridge Technical Extended Diploma (includes all of the topics).	
OCR Level 3 Cambridge Technical Diploma	OCR Level 3 Cambridge Technical Extended Diploma
Building positive relationships in health and social care	Sexual health, reproduction and early development stages
Equality, diversity and rights in health and social care	Supporting people with dementia
Health, safety and security in HSC	Supporting people with mental health conditions
Anatomy and physiology for HSC	Looked after children and young people
Infection control and safeguarding	Research methods in HSC and childcare
Promote positive behaviour	
The impact of long term physiological conditions	
Psychology for HSC	
Sociology for HSC	

How the course is assessed
The assessment consists of internally assessed units and externally assessed exams.

Future Career Opportunities
The health and social care sector employs vast numbers of people across the country within a varied range of job roles, with the workforce totalling around 3 million people. Many careers involve meeting the needs of people and, with this in mind, the Cambridge Technical in Health and Social Care offer a wide range of units. These enable students to learn about key areas and to meet the needs of people in the health and social care sector. This would provide an ideal foundation for students to progress to more advanced studies and to the work place. Possible careers include: Childcare, Care for the elderly and vulnerable, Nursing, Health Care Assistant, Social Work, Midwifery, Mental, Health work, Counselling Youth work and paramedic.

Subject Name	History (Tudors and Nazism) AQA
Entrance Criteria	A grade 6 in History GCSE OR a grade 6 in English Literature GCSE if History GCSE was not taken.

Year One Content
<p>Unit 1C: Consolidation of the Tudor Dynasty: England 1485-1547</p> <ul style="list-style-type: none"> • Monarchy restored and enhances, 1485-1529 • Revolution in Church and State, 1529-47 <p>Unit 2O: The Weimar Republic 1918-1933</p> <ul style="list-style-type: none"> • The Establishment and Early Years of Weimar Germany, 1918-24 • The Weimar Republics Golden Age 1924-28 • The collapse of democracy, 1928-33

Year Two Content
<p>Unit 1C: England, 1547-1603: Turmoil and Triumph</p> <ul style="list-style-type: none"> • The Mid-Tudor crisis 1547-63 • The triumph of Elizabeth, 1563-1603 <p>Part 2: Year 13</p> <ul style="list-style-type: none"> • The Nazi Dictatorship, 1933-39 • The impact of Nazism on the German people, 1933-45 • The Racial State, 1933-45 <p>Historical Investigation – NEA (coursework)</p> <p>A piece of coursework of approximately 3500-4500 words on an historical issue of your choice. The NEA is an independent study that allows students to demonstrate and develop many of the skills looked for by universities.</p>

How the course is assessed
<p>There are two examinations to be taken at the end of Year 13 which are 2 hours and 30 minutes long. One on the Tudor Unit (1C) and one on the Germany unit (2O). Each is worth 40% of the final grade.</p> <p>The Historical investigation is a non-examined element of the course that comprises 20% of the final grade.</p>

Subject Name	Mathematics EDEX
Entrance Criteria	At least a 7 in Maths GCSE

Year One Content
<p>Pure Mathematics</p> <p>Topics covered: Proof (deduction and counter example); algebra and functions (indices and surds, algebraic manipulation, simultaneous equations and inequalities); sketching and transforming graphs; equations of lines and circles; binomial expansion, factorials and combinations; trigonometry (sine and cosine rules, graphs of functions, basic identities and solving equations); exponentials and logarithms; mathematical models; calculus with polynomials; 2D vectors.</p> <p>Statistics and Mechanics</p> <p>Topics covered: statistical sampling; data presentation and interpretation (correlation, central tendencies and variance); probability (conditional probability and continuous distributions); statistical distributions (binomial and normal); hypothesis testing. Quantities and units; kinematics (SUVAT equations, graphs, calculus and vectors); forces and Newton's laws (gravity, weight, friction, connected particles); moments.</p>

Year Two Content
<p>Pure Mathematics</p> <p>Topics covered: Proof (deduction and contradiction); algebra and functions (rational expressions, modulus function, partial fractions, composite functions); parametric equations; sequences and series (arithmetic and geometric); trigonometry (radian measure, inverse and reciprocal functions, further identities); differentiation (products and compositions of functions, trigonometric, exponential and logarithmic functions, implicitly or parametrically defined functions); integration (substitution, by parts, differential equations); numerical methods; 3D vectors.</p> <p>Statistics and Mechanics</p> <p>Further work on: statistical sampling; data presentation and interpretation (correlation, central tendencies and variance); probability (conditional probability and continuous distributions); statistical distributions (binomial and normal); hypothesis testing. Quantities and units; kinematics (SUVAT equations, graphs, calculus and vectors); forces and Newton's laws (gravity, weight, friction, connected particles); moments.</p>

How the course is assessed
<p>The course assessment is 100% examination, all taken at the end of the course.</p> <p>Pure Mathematics 1: 2 hours (33 ⅓%)</p> <p>Pure Mathematics 2: 2 hours (33 ⅓%)</p> <p>Paper 1 and Paper 2 may contain questions on any topics from the Pure Mathematics content.</p> <p>Statistics and Mechanics: 2 hours (33 ⅓%)</p>

Future Career Opportunities
<p>Mathematics naturally lends itself to careers in Finance such as Investment or Accountancy, and careers relating to the physical world such as Engineering, Meteorology or Marine Biology. Employers look for employees with strong number, reasoning and problem solving skills, these skills are constantly developed by studying mathematics, making it a versatile subject. It prepares you for many careers that you might not initially link to maths, such as Teaching, Medicine or Law.</p>

Subject Name	Music AQA
Entrance Criteria	At least a 6 in Music GCSE Having regular lessons on an instrument/voice to approximately grade 4 standard or above

Year One Content

The course is split into three main elements: performing, composing and listening/appraising. The first year of the course will start to explore the set works within the first area of study, choosing between, Romantic piano music and music from Mozart's operas. In addition to the first area of study, there is the choice to specialise in one of the following genres: pop music, music for media, Jazz. Within the course we will begin to develop compositional techniques, looking at composing in a range of styles linked to the areas of study. There will be ongoing performance opportunities throughout the course on their solo instrument or in an ensemble.

Year Two Content

The main structure of the course is the same as Year 1. Additional areas of study for Year 2 will include studying set works within the genre of the Baroque solo concerto. There will also be the choice to focus on a further topic of choice from: musical theatre, contemporary traditional music, Art music. In the second year of the course, we will begin to focus on the coursework element of composition; students will work on one composition from a choice of briefs set by the exam board, and one free composition from a brief chosen themselves. Performance opportunities will be ongoing, and we will be working towards preparing for the final performance recital of solo or ensemble pieces.

How the course is assessed

Performance (35%) is externally assessed with a recording of a solo or ensemble performance at least 10 minutes long. Composition (25%) is externally assessed in two parts; one composition to a brief, and one free composition of the candidates' choice, with both compositions combined lasting at least 4.5 minutes. The listening exam (40%) assesses general musical understanding, as well as essay questions based on analysis of the set works within the Areas of Study.

Future Career Opportunities

Music A level is obviously a great choice for anyone interested in studying music or music technology to a university or conservatoire level. It is also a highly regarded subject by all of the UK's top universities, due to the diverse range of practical, analytical and academic skills required. A good grade in Music A level can compliment other subjects for university applications in other specialisms, so should be considered by anyone with a real interest in music regardless of whether it is their chosen career pathway or not.

Subject Name	Physical Education OCR
Entrance Criteria	Preferably a 6 in Physical Education GCSE

<p>This course will develop your knowledge and understanding of associated theoretical aspects from the scientific to the socio-cultural plus an appreciation of physical performance. Lessons are both practical and theory.</p> <p>Component 1: Physiological Factors Affecting Performance You will study three theoretical areas in this section: Anatomy and physiology; Exercise Physiology; Biomechanics</p> <p>Component 2: Psychological factors affecting Performance You will study three theoretical areas in this section: Skill acquisition; Sports Psychology</p> <p>Component 3: Socio-cultural issues in Physical activity and Sport Sport, Society and Technological Influences</p> <p>Component 4: Performance within Physical Education One sport is assessed as either a performer or a coach. This sport is assessed internally, and again at moderation.</p> <p>Students are also assessed in the analysis of a live performance (The Evaluation and Analysis of Performance for Improvement).</p>

How the course is assessed
Component 1: 30% 2 hour written paper Component 2: 20% 1 hour written paper Component 3: 20% 1 hour written paper Component 4: 30% non- exam assessment

Future Career Opportunities
Sports & Exercise Science, Medicine, Physiotherapy, Sports Law, Sports Performance, Sports Development, Nutritionist, Sports Massage Therapy, Events Manager, Talent Project Coordinator, Performance Analyst, Sports Psychologist, Sports Conditioning, Sports Technology.

Subject Name	Physics A OCR
Entrance Criteria	6 in GCSE Mathematics AND 6-6 in Combined Science OR 6 in Separate (Triple) Physics GCSE

Year One Content
<p>Module 1: Development of practical skills in physics*</p> <p>Module 2: Foundations of Physics Physical quantities and units, Scalars and vectors, Measurements</p> <p>Module 3: Forces and motion Motion, Forces in action, Work and Energy, Materials, Newton's laws of motion and momentum</p> <p>Module 4: Electrons, waves and photons Charge and current, Energy, power and resistance, Electrical circuits, Waves, Quantum physics</p>

Year Two Content
<p>Module 1: Development of practical skills in physics *Skills of planning, implementing, analysis and evaluation</p> <p>Module 5: Newtonian world and astrophysics Thermal physics, Circular motion, Oscillations, Gravitational fields, Astrophysics</p> <p>Module 6: Particles and medical physics Capacitors, Electric fields, Electromagnetism, Nuclear and particle physics, Medical imaging</p>

How the course is assessed
<p>2 written examination papers 2¼ hours in duration</p> <p>A further synoptic examination paper 1½ hours in duration</p> <p>*A teacher assessed practical endorsement</p>

Future Career Opportunities
Aeronautical Engineer, Agricultural Engineer, Pilot, Archaeologist, Architect, Astronomer, Audio Engineer, Broadcasting, Cartographer, Chartered Surveyor, Civil Engineer, Climatologist, Clinical Scientist, Computing, Medic, Electrical Engineer, Environmental Scientist, Forensic Scientist, Geologist, Journalist, Marine Engineering, Mechanical Engineer, Medical Physicist, Meteorologist, Nuclear Scientist, Oceanographer, Pharmacist, Radiation Protection, Transport and many more!

Subject Name	Psychology AQA
Entrance Criteria	Grade 5-5 in Combined Science or grade 5 in Separate (Triple) Biology GCSE .

Year One Content
<p>Psychology studies human mind and behaviour. This course will develop the knowledge and understanding of the core issues of modern psychology and ability to understand yourself and others a little better.</p> <p>In Year 12 you will study:</p> <ul style="list-style-type: none"> • Social influence • Memory • Attachment • Approaches • Psychopathology • Research Methods • Biopsychology

Year Two Content
<p>In Year 13, you will study the following core content:</p> <ul style="list-style-type: none"> • Issues and debates <p>There are also Option Topics, for which you will study:</p> <ul style="list-style-type: none"> • Forensic psychology • Gender • Schizophrenia

How the course is assessed
<p>Paper 1: 2 hours, 96 marks in total and 33.3% of total A-level</p> <p>Paper 2: 2 hours, 96 marks in total and 33.3% of total A-level</p> <p>Paper 3: 2 hours, 96 marks in total and 33.3% of total A-level</p> <p>Question include multiple choice, short answers and extended writing.</p>

Future Career Opportunities
<p>Business development, Accountancy, Human resources, Forensic psychology, Occupational therapy, Clinical psychology, Nursing, Teaching.... The possibilities are endless!</p>

Subject Name	Sociology AQA
Entrance Criteria	

Year One Content
<p>Sociology is a study of society: its laws, norms and rules. This course will develop knowledge and understanding of the structures and cultures of different societies throughout the world and throughout history.</p> <p>In Year 12, you will study the following subject areas:</p> <ul style="list-style-type: none"> • Family and households • Education • Methods in context • Theory and methods

Year Two Content
<p>In Year 13, you will study the following areas:</p> <ul style="list-style-type: none"> • Crime and Deviance • Theory and methods • 'The Media'

How the course is assessed
<p>Paper 1 -2 hours , 80 marks in total and 33.3% of total A-level</p> <p>Paper 2 -2 hours , 80 marks in total and 33.3% of total A-level</p> <p>Paper 3 -2 hours , 80 marks in total and 33.3% of total A-level</p> <p>All papers will include short answers and extended writing.</p>

Future Career Opportunities
<p>Studying sociology at university can give you a whole host of exciting career options, including Social work, Human resources, Advertising, Policing, Marketing, Journalism, Law and Teaching.</p>

Subject Name	Spanish AQA
Entrance Criteria	At least a 6 in Spanish GCSE

Year One Content
<p>Aspects of Society:</p> <ul style="list-style-type: none"> • Traditional and modern values • Cyberspace • Sexual equality • Artistic Culture in the Hispanic language world: • The influence of 'idols' • Regional identity in Spain • Cultural Heritage • Study of a Spanish language film- El laberinto del fauno directed by Guillermo del Toro

Year Two Content
<p>Multiculturalism in Hispanic Society:</p> <ul style="list-style-type: none"> • Immigration • Racism • Integration • Aspects of political life in the Hispanic World: • Youths of today, citizens of tomorrow • Monarchies and dictatorships • Social movements • Study of a Spanish language book 'Crónica de una muerte anunciada' by Gabriel Garcia Marquez

How the course is assessed
<p>Paper 1- Listening, Reading and Writing (100 marks) 2 1/5 hours 50% of the final grade</p> <p>Paper 2- Writing (80 marks) 2 hours 20% of the final grade</p> <p>Paper 3- Speaking (60 marks) 21-23 minutes 30% of the final grade</p>

Future Career Opportunities
<p>Trade, Law, Business, Academia, Commerce, Sales and Marketing, B2B Marketing, Hotel/Restaurant/Catering, Travel and Tourism, Politics, Translation and Interpreting, Travel Writing The possibilities are endless!</p>

Subject Name	Design & Technology – Product Design Edexcel - A' Level (9DT0)
Entrance Criteria	Preferably 6 or above in GCSE Design & Technology

Year One Content

Principles of Design and Technology, will include:

Topic 1: Materials
 Topic 2: Performance characteristics of materials
 Topic 3: Processes and techniques
 Topic 4: Digital technologies
 Topic 5: Factors influencing the development of products
 Topic 6: Effects of technological developments
 Topic 7: Potential hazards and risk assessment
 Topic 8: Features of manufacturing industries
 Topic 9: Designing for maintenance and the cleaner environment
 Topic 10: Current legislation
 Topic 11: Information handling, Modelling and forward planning
 Topic 12: Further processes and techniques.

Year Two Content

The non-exam assessment (NEA) is made up of a single substantial independent design and make project.

There are four sections to this:

Part 1: Identifying and outlining possibilities for design

You will individually and/or in consultation with a client/end user identify a problem and design context.

Part 2: Designing a prototype

Then develop a range of potential solutions which include the use of computer aided design and evidence of modelling. You will make decisions about the designing and development of the prototype in conjunction with the opinions of the client/end user.

Part 3: Making a final prototype

You will realise one potential solution through practical making activities with evidence of project management and plan for production. You will incorporate issues related to sustainability and the impact their prototype may have on the environment.

Part 4: Evaluating own design and prototype

You are expected to analyse and evaluate design decisions and outcomes for prototypes/products made by themselves and others and to analyse and evaluate wider issues in design technology, including social, moral, ethical and environmental impacts.

The NEA will be completed in the second term and then the principles of design will be revised in preparation for the summer examination.

How the course is assessed

Written examination Paper (2 ½ hours) - 120 marks including the following topics covered in year 1.	Non-exam assessment criteria (NEA) –50%:120 marks
--	--

Future Career Opportunities

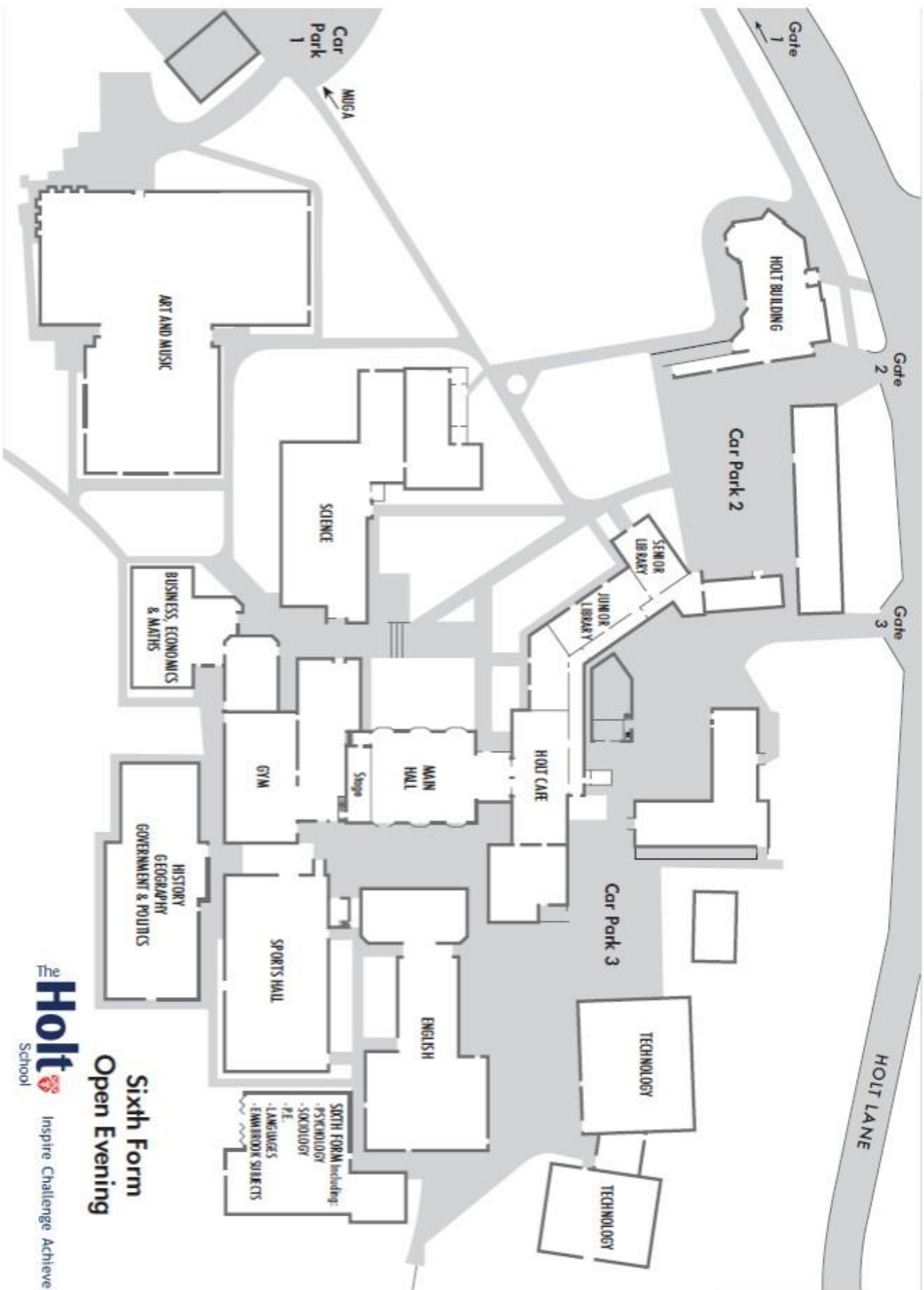
The possibilities are endless! Any career that requires problem solving, critical analysis or creativity. For example Product Designer, Graphic designer, Industrial designer or Fashion designer, Architect, Textiles designer, Merchandiser, Clothing and Textiles technologist, Interior or Spatial designer, Print maker, Retail buyer, Architectural technician, Education- Teacher, Lecturer, Museum or Gallery conservator, Colour technologist to name a few.

Enrichment and Leadership Opportunities

Early entry and Oxbridge preparation
In depth UCAS preparation and support
Preparation for apprenticeship applications
Extended Project
Practice Interviews
Work Experience week
Medics Society
STEM Society
Young Enterprise
Links to Eton College for lectures/speakers
Residential field trips
Language exchanges
Leading whole school and subject assemblies
Student leadership, House and subject Prefect System
Running 'House' events
Running subject clubs
Debating
Classroom Attachment
Primary school links
Peer Mentoring
Volunteering in the community
Volunteering in the learning link
Charity work
Local and regional Competitions
Sports Teams
Social events and BBQs

Notes and Thoughts

Questions to ask



**Sixth Form
Open Evening**