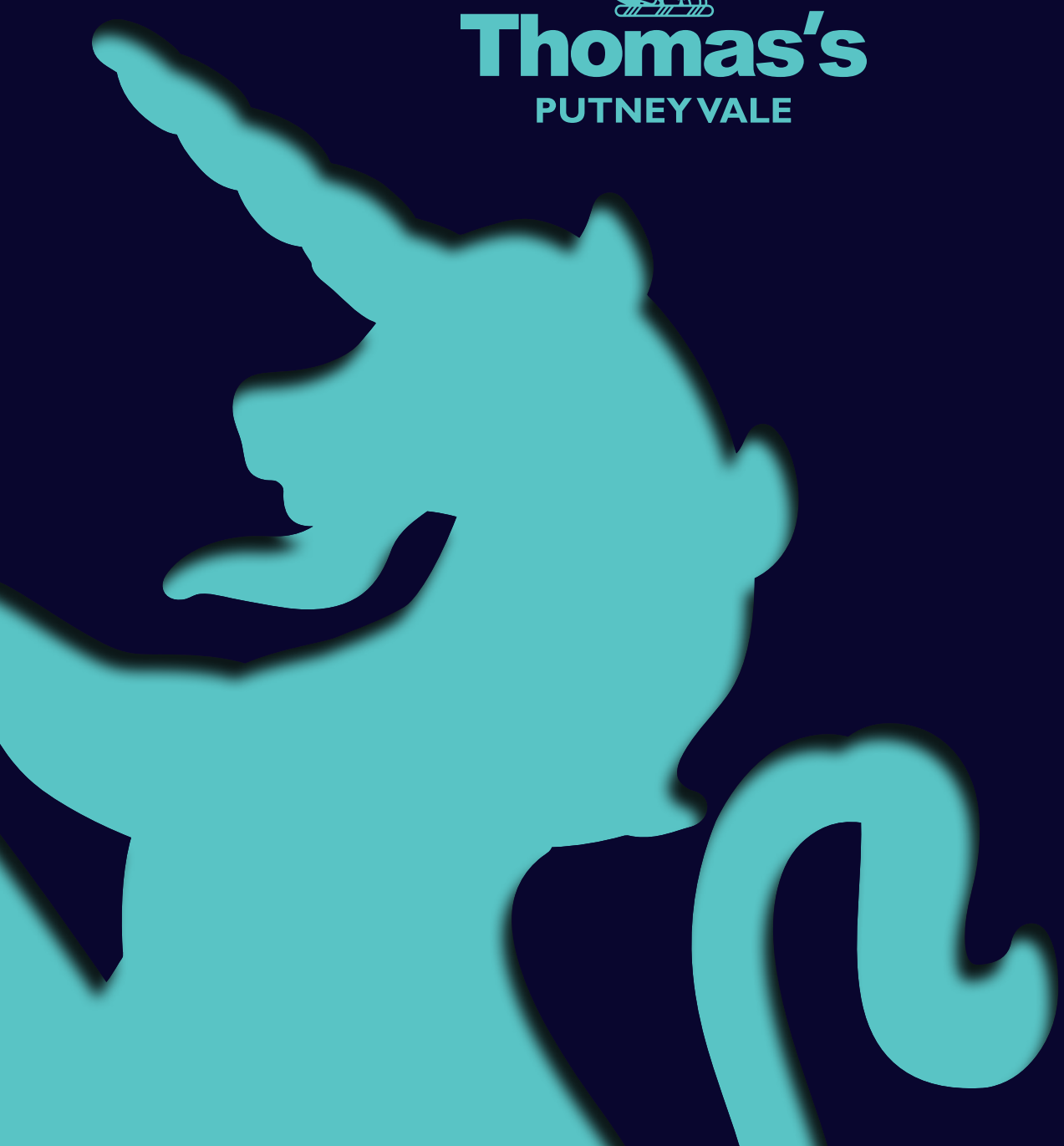
Thomas's
PUTNEY VALE



Year 10 & 11 Curriculum Guide


MODEL UNITED NATIONS
MODEL UNITED NATIONS
Thomas's

Curriculum Aims

A curriculum that is inspiring, relevant and contemporary

We aim to offer a curriculum that fosters an enquiry mindset, is inspiring, relevant and contemporary and ensures both breadth and depth of educational experience. We place emphasis on developing skills of communication, collaboration, creativity and critical thinking. We aim to prepare pupils not only to remember, but also to think creatively; to analyse age appropriate, complex issues and to be ready for life as well as work in a globalised, digital and connected world.

It is our aim that every pupil leaves Thomas's with core values and a strong sense of social responsibility; inner strength and positive physical and mental health; academic success and a love of learning. We strive to ensure that a Thomas's education equips all of our pupils with optimism about and preparedness for the future, setting them on a path to become net contributors to society and to flourish as successful, conscientious and caring citizens of the world.

Therese Andrews and Emma Oliver
Co-Heads

Curriculum Vision

The curriculum is at the heart of our school

The curriculum is at the heart of Thomas's Putney Vale, reflecting our school aims, vision and values. The curriculum:

- enables pupils to be valued for who they are and trust themselves and each other,
- upports them in finding and expressing their voice and discovering the difference they can make for themselves
- helps pupils learn to think for themselves, to question, to collaborate, to be independent, to be optimistic, realistic and positive, to own and take charge of their learning and their lives
- encourages pupils to become ambitious and courageous thinkers who are unafraid to aspire to leadership by questioning, challenging, collaborating and serving.

To achieve this, the curriculum:

- is broad and promotes the school's values
- is inclusive, innovating and inspiring
- is age-appropriate
- promotes an enquiry mindset of thinking and asking questions
- is four-dimensional (knowledge, skills, character and metalearning)
- promotes academic success, well-being and character, with an emphasis on entrepreneurship, digital literacy, expressive arts, sport, outdoor and adventurous learning, developing lifelong skills, and instilling social responsibility, service learning and citizenship.

Our curriculum design:

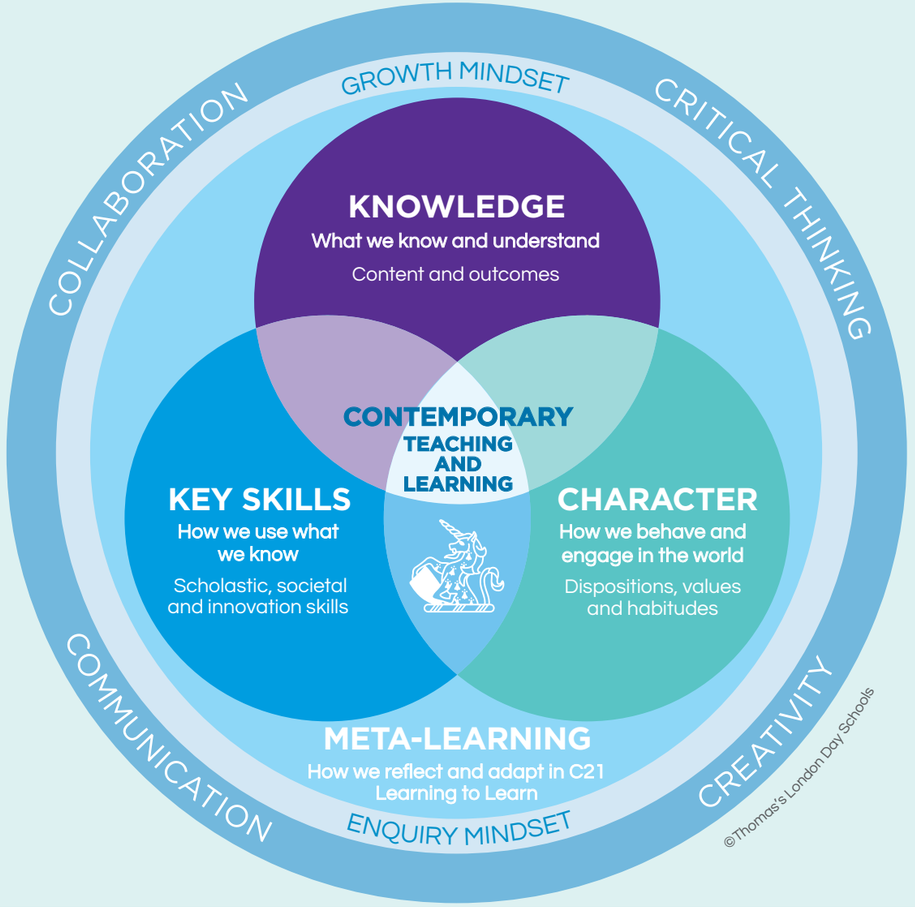
- recognises the national education system whilst also taking the opportunity to go beyond it
- includes subjects disciplines where pupils can develop disciplinary knowledge, skills and understanding
- includes opportunities for interdisciplinary learning
- encourages pupils to learn for fun, beyond the confines of an exam syllabus.

4 Dimensions

Our four-dimensional curriculum approach

Our 4 dimensional curriculum approach has been developed with inspiration from the Center for Curriculum Redesign, recognising the importance of knowledge, skills, character and metalearning.

Three curriculum lenses will set the scene for teaching and learning, with which teachers will plan and pupils will view their learning:



Year 10 & 11 Thomas's Curriculum

Forward thinking, outward looking

With our aim to provide an outstanding education that is forward thinking, outward looking and with a strong set of values at its heart, our pupils will undertake learning that is both examined and non-examined.

GCSE Core	GCSE Options	
English Literature English Language Maths Combined Science	**Option 1** **(choose 1 second language)**	French Spanish Latin
	Option 2 **(choose 1)**	Geography History Religious Studies
	Option 3 **(choose 1)**	Art Computer Science Design and Technology Drama Music Physical Education Triple Science

Thomas's Core	Thomas's Options for 2024-2025	
Higher Project Qualification Global Studies Careers and Higher Education Outdoor Learning PSHE Games	• School production • Band • Beginners Italian and Portuguese • Python programming • Photography • Open Art Studio • Rocketeering to enter the National Physics Lab Competition	• Pottery • Board game creation • Materials exploration (DT) • Rowing

GCSE Core and Options

Eight GCSE courses

Pupils will take eight GCSE courses as well as a Higher Project Qualification in Years 10 and 11. There are three ways in which an additional GCSE can be undertaken at school:

1. Native speakers may take a GCSE in their native language if this is a language we can support and they attend a weekly extracurricular club. If the native language is one that we cannot support in school, then external support may be required. The MFL Department will have the final decision over whether a pupil can be considered to be a native speaker.
2. Some pupils may be invited to sit a Further Maths GCSE during Year 11. This invitation is at the discretion of the Maths Department in conjunction with the Senior Leadership Team.
3. Pupils will study the IGCSE Global Perspectives course as part of the Thomas's Core Curriculum in Global Studies and pupils will have the option to take the exam at the end of the course.

Pupils will choose their preferred subjects for GCSE during Year 9 and start the two year course at the beginning of Year 10, taking their exams during the Summer Term of Year 11.

Pupils will take five core GCSE subjects and choose three options. The option blocks have been developed to ensure that pupils continue learning a broad curriculum when they narrow their number of subjects.

Pupils can change their mind about their option choices until the end of September in Year 10. In agreement with their teachers, they can change option choice as long as the missed work is caught up on. After September, no subject choices can be changed.

GCSE

Thomas's Core

Thomas's Core curriculum

In addition to the examined subjects, we will run a Thomas's Core curriculum.

Higher Project Qualification

- The Higher Project Qualification (HPQ) allows pupils to discover the joys of independent learning, take responsibility for their own study and develop new life and study skills. It is a Level 2 qualification, which is the equivalent of one GCSE and is an excellent way for pupils to extend and develop beyond the material being covered in class and to explore their passion for a subject.

- The HPQ requires pupils to carry out research on a topic that they've chosen that isn't covered by their other qualifications. They then use this research to produce a written report and, in the case of practical projects, an artefact or a production.

Global Studies

Young people face unprecedented challenges in an interconnected and information-heavy world, not least in how they will gain a sense of their own active place in the world and cope with changes that will impact on their life chances and life choices.

In Global Studies pupils will have opportunities to acquire and apply a range of skills to support them in these challenges, including:

- researching, analysing and evaluating information
- developing and justifying a line of reasoning
- reflecting on processes and outcomes
- communicating information and reasoning
- collaborating to achieve a common outcome.

Pupils will undertake a group project, an individual written report and have the option to take an exam at the end of the course to gain an IGCSE in Global Perspectives, through the Cambridge International Education Assessment.

Careers and Higher Education

Careers teaching aims to give all pupils the knowledge they need to make the right choices about their immediate and later futures. It uses online platforms that give guidance tailored to the individual child's learning and needs and introduces them to a range of new ideas in this area.

Building on the work done in Year 9 that looks at how the skills and experiences they have will feed into further study and employment, Year 10 pupils then take a more detailed look at the types of jobs that are available and start to think about which might be best suited to them. They continue to develop wider life skills and apply these in a real world setting through work experience placements completed at the end of the year.

To prepare for this they learn about a selection of workplace skills such as appropriate management of social media, diversity, professionalism and wellbeing. Year 11 focuses again on the academic choices they have made and extends the thinking around this to enable them to make informed decisions about their post 16 education. They learn about A-Levels, BTECs and Apprenticeships and again tie all of this to different career opportunities.

The curriculum also provides advanced workplace skills training and gives them access to visiting career specialists, employers and employees in a range of professional areas.

Within this subject pupils will share their ideas and progress through class presentations, online portfolios and in the production of information leaflets and posters.

Outdoor Learning

Pupils will take part in up to three outdoor adventure days over the Michaelmas term, building on the successes of the Year 9 programme. The days will focus on teamwork, self-reflection and personal challenge. Day two will run as a split day, encompassing a morning activity before the Silver DofE award is introduced and an information session giving pupils an option to opt into the programme. Day three is designed for those who have opted in with the attending group taking part in three activities to enable the group to start the process of designing their own expedition programme, utilising the Thomas's Outdoors department expertise and experience to choose from a walking, sailing or canoeing DofE Silver Expedition. The optional third day will take place on the INSET day in November.

The initial outdoor adventure day will assist pupils in building new connections with starting pupils as well as strengthen existing friendships, using the Thomas's Outdoors Department to facilitate a memorable experience. The focus will be on physical and mental wellbeing, character recognition and understanding.

For those wanting to continue with the Silver DofE award, the focus will be on providing pupils with developmental opportunities from which to create their own expedition, giving them ownership and responsibility for the planning, and delivery of the training and assessed expedition. Supported by TOD they will have two years to complete the volunteering and skills based section with the expedition elements happening in the Summer Term.

Thomas's Outdoors Departments Thomas's Adventure programme will include a selection of weekend activities and trips. Examples of historic trips include a sailing adventure in the Solent, camping in Kent, bushcraft skills weekends and international expeditions.

PSHE

Pupils will continue taking part in PSHE sessions during Form Time twice weekly. The topics covered in this subject area will extend the learning from Years 7, 8 & 9. These include human rights, mental health and ill health, keeping safe online and decision making. The statutory Relationship and Sex Education Curriculum will be taught during these sessions. We have a focus on educating pupils about their rights and responsibilities, how to develop and maintain positive relationships and how to navigate life.

Games

The Sports Department at Thomas's will oversee all aspects of physical activity with the aim of all pupils leaving with a healthier outlook on life. We will provide them with the skills, understanding and appreciation of what's needed to lead a healthier lifestyle.

Games afternoons: Each year group will have a games afternoon where they will have the opportunity to develop skills, teamwork and tactical awareness in one of our focus sports (rugby, football, hockey, netball, athletics and tennis).

Fixtures against other schools are arranged in games afternoons with all pupils having the opportunity to represent the school. Saturday fixtures will also take place. The expectation is that if a pupil is selected to represent the school on a Saturday, it is part of the school week and the pupil is expected to attend.

	Autumn	Lent	Summer
Girls	Hockey	Netball	Athletics and Tennis
Boys	Rugby	Football	Athletics and Tennis

Thomas's Options

Develop skills in a variety of areas

Thomas's Options is an exciting opportunity to learn something new for fun! There are a variety of options to choose from which can change as often as every half term to enable pupils to nurture different passions and interests. Thomas's Options is assessed in different ways; this can be through performances, entering a competition or by creating an artefact.

Options in 2023-24 included:

- School production
- Band
- Beginners Italian and Portuguese
- Python programming
- Photography
- Open Art Studio
- Horse riding
- Rocketeering to enter the National Physics Lab Competition
- Pottery
- Board game creation
- Materials exploration (DT)
- Rowing.

Years 10 and 11 will combine for the Thomas's Options to expand the number of opportunities available.

GC
SE

Assessment

1-9 scale of GCSE grades

In their examined learning, pupils will be assessed using the 1-9 scale of GCSE grades. Roughly speaking, 9 is equivalent to higher than an A* and 4 is the equivalent of a C in the old system. The only exception to this is the optional IGCSE Global Perspectives, which uses the A*-G scale.

During the two year course, all learning will be assessed by the teachers. Some of this learning will be assessed formatively, and some will be assessed summatively:

Formative assessment:
the focus is on assessing for learning; this is aimed at helping pupils to make progress and might include comments, a conversation, observation, demonstration etc.

Summative assessment:
the focus is on assessment of the learning; this is aimed at giving pupils, teachers and parents an idea of how well pupils have remembered what they have been taught. This might include a percentage, number or grade.

Pupils will undertake three assessment cycles during Year 10 and two sets of mock GCSE exams in Year 11 to help them prepare for their final exams which will take place over approximately a six week period in May/June of Year 11.

The Thomas's Core Curriculum will be assessed by various high stakes moments, depending on the learning; this might include presentations, performances or creating artefacts.

GRADES

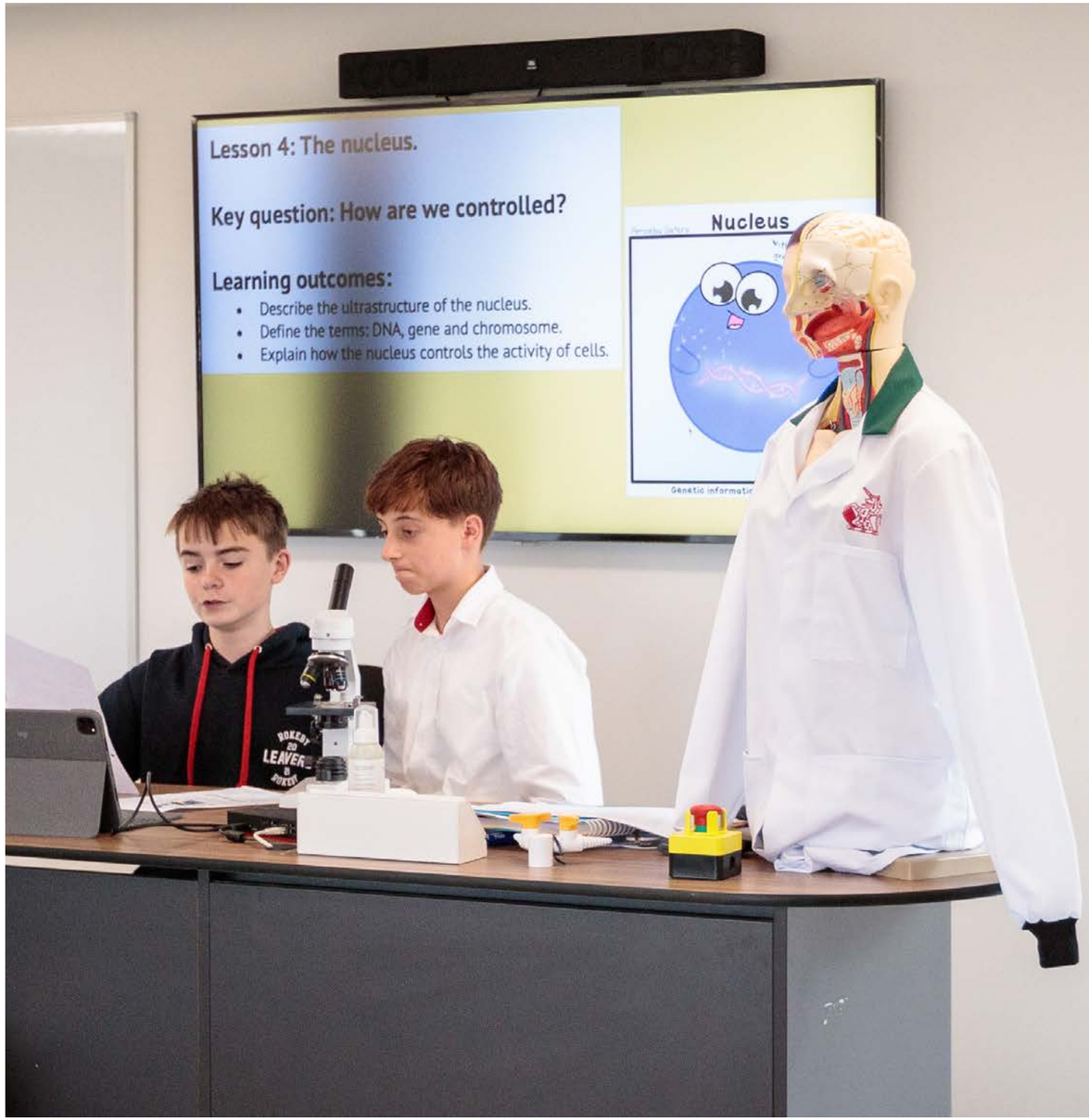
Reporting

The following grades will be included in the pupils' reports during Years 10 and 11:

Forecast grade	The grade developed by the teacher as most likely for the pupil to achieve at the end of the course based upon all the evidence that they have (classwork, homework, tests and effort).
Current grade	The grade at which the pupil is working currently, based upon all evidence that the teacher has (classwork, homework and tests).

You will also be able to refer to the results of the Cognitive Abilities Test taken upon entry. These grades include:

CAT indicator	The grade generated by their most recent CAT test if the pupil makes average progress. This grade will not change (unless a pupil takes another CAT test).
CAT if challenged indicator	The grade generated by their most recent CAT test if the pupil makes above average progress. This grade will not change (unless a pupil takes another CAT test).



GCSE Core Subjects

- English Literature
- English Language
- Maths
- Combined Science

English

You will use it throughout your lives

Why study English?

Studying English Language and Literature at GCSE equips you with essential skills crucial for your academic and professional futures. It fosters proficiency in communication, enhancing both written and verbal expression.

Through the exploration of literature, you will gain valuable insights into diverse cultures, perspectives, and historical contexts. Analytical thinking is honed as you dissect texts, fostering critical thinking and the ability to articulate ideas effectively. Moreover, English at GCSE cultivates creativity, encouraging you to craft compelling narratives and arguments. These skills are indispensable, empowering you to excel in various fields and contribute meaningfully to society, making English a cornerstone of a well-rounded education.

Where can English take you?

Helps towards degree courses in...	Helps towards careers in...
English Humanities Philosophy, Politics and Economics (PPE) Psychology Law	Law Teaching Government Marketing Public Sector Politics

What will you study when you study English?

Literature – Paper 1
- Shakespeare and the 19th Century Novel
- Romeo and Juliet by William Shakespeare and A Christmas Carol by Charles Dickens

Literature – Paper 2
- Modern prose and poetry
- An Inspector Calls by J. B. Priestley; Power and Conflict poems by various poets; unseen poetry

AQA Language – Paper 1 – explorations in creative reading and writing
Section A: Reading
- One unseen fiction extract

Section B: Writing
- Descriptive or narrative writing

Language – Paper 2 – writers' viewpoints and perspectives
Section A: Reading
- Two non-fiction texts including writing from the 19th century and 20th or 21st century

Section B: Writing
- Transactional writing or writing to present a viewpoint

How will you be examined?

For Literature, Paper 1 is a 1 hour 45 minutes written exam, comprising 40% of the GCSE, while Paper 2 is a 2 hours 15 minutes exam, accounting for 60%.

Language has two papers, each lasting 1 hour 45 minutes, with 50% weightage each. Additionally, there's a Non-examination Assessment in Spoken Language, evaluated by teachers.

Year 10	A Christmas Carol English Literature Paper 1	Class and Wealth English Language Paper 2	Romeo and Juliet English Literature Paper 1	Romeo and Juliet English Literature Paper 1	Sinister Shorts English Language Paper 1	Transactional writing & Spoken Language Endorsement
Year 11	An Inspector Calls English Literature Paper 2	Power and Conflict poetry English Literature Paper 2	English Language Paper 2	Tailored Revision	Tailored Revision	

Which potential school trips will you go on?

We will visit Stratford Upon Avon to tour Shakespeare's birthplace, his school rooms and Anne Hathaway's cottage. Pupils will participate in a workshop run by the Royal Shakespeare Company to complement their study of *Romeo and Juliet*.

Maths

Knowledge to tackle scientific, mechanical, coding and abstract problems

Why study Maths?

Studying GCSE Maths will give you the knowledge to tackle scientific, mechanical, coding and abstract problems. It will also help you develop logic to tackle everyday issues like planning projects, managing budgets and even debating effectively.

Where can Mathematics take you?

Helps towards degree courses in...	Helps towards careers in...
Economics	Accountancy
Mathematics	Medicine
Biological Sciences	Public Sector
Human Sciences	Business
Chemistry	Marketing
Physics	Insurance
	Economics
	Teaching
	Consultancy

What will you study in Maths?

Year 10

Mich
Unit 1: Number
Unit 2: Algebra
Unit 3: Interpreting and Representing Data
Unit 4: Fractions, Decimals and Percentages
Unit 5: Angles and Trigonometry

Lent
Unit 6a: Graphs
Unit 7: Area and Perimeter
Unit 11: Multiplicative Reasoning
Unit 9: Equations and Inequalities
Unit 10: Probability

Summer
Unit 8: Transformations and Constructions
Unit 12: Similarity and Congruence
Unit 13: Further Trigonometry
Unit 14: Further statistics
Unit 15: Equations and Graphs

Year 11

Mich
Unit 16: Circle Theorem
Unit 17: Further Algebra
Unit 18: Vectors and Geometric Proof
Unit 6b: Graphs
Unit 19: Proportion and Graphs

Lent
Revision Term

Summer
GCSE Exams

Which exam board? – Edexcel

Paper 1: Non-Calculator (33.3%)

- Written examination papers with a range of question types
- No calculator is allowed
- 1 hour and 30 minutes
- 80 marks available

Paper 2: Calculator (33.3%)

- Written examination papers with a range of question types
- Calculator allowed
- 1 hour and 30 minutes
- 80 marks available

Paper 3: Calculator (33.3%)

- Written examination papers with a range of question types
- Calculator allowed
- 1 hour and 30 minutes
- 80 marks available

Which resources will be required?

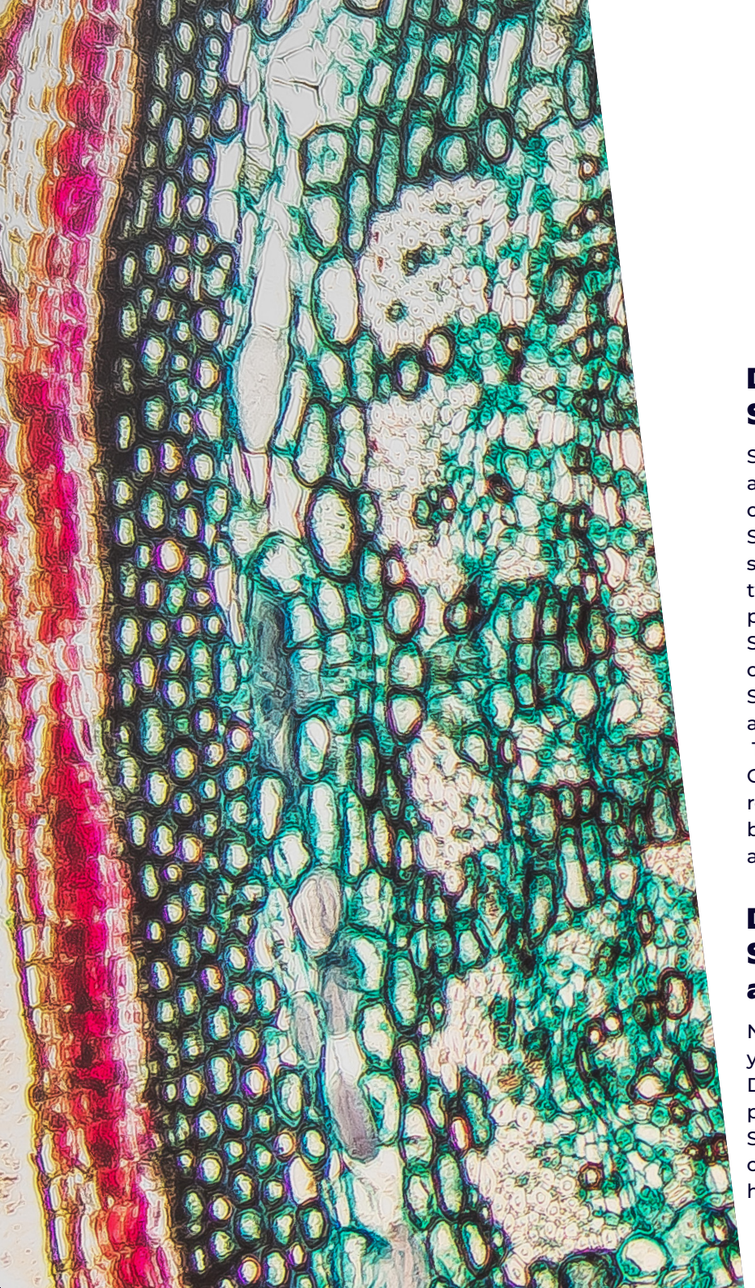
Textbooks:

- Edexcel GCSE (9-1) Higher Mathematics

Workbooks / revision books:

- Edexcel GCSE (9-1)

All pupils will need the Casio fx-83GTX model of calculator and a geometry set comprising a ruler, protractor and pair of compasses. They will receive a personal account with the online website Sparx Maths.



Combined Science

Double Award and Triple Award Science

Double Award and Triple Award Science – what's the difference?

Science at GCSE can be studied as a double award (often referred to as Combined Science) or triple award course (often referred to as Separate Sciences). Both courses cover all three sciences. The main difference between the two is the amount of content. Triple Science pupils study more content, whereas Double Science pupils cover approximately two thirds of the Triple Science content. In addition, Triple Science exams are slightly longer – usually half an hour longer than Double Science exams. Triple Science pupils receive three separate GCSEs, while pupils taking Double Science receive two combined GCSEs which are based on their overall performance across all three Sciences.

Do I need to study Triple Science in order to study a science at A level?

No, it is not necessary to take Triple Science; you can do the A-level after having studied Double Science. However, Double Science pupils may find requirements for A-level Science tougher to meet as they will have covered less material than those who have studied Triple Science.

How do I choose which of the two Science courses to take?

Most importantly, if you want to take Triple Science you need to enjoy Science. Your teachers will help guide you make this decision.

Will I be entered for Higher or Foundation tier?

This decision will be made at the end of Year 10 by your teachers, in consultation with you and your parents. Ultimately we want to get the best grade possible for you.

Subject: GCSE Combined Science: Trilogy (worth two GCSEs)

Why study Science?

To quote the Royal Society, "Almost any career benefits from the inquiring, innovating and questioning mindset that comes from studying Science. In a world of change there will always be careers that we can't yet imagine; studying Science opens the door to thousands of jobs and careers, and gives you the skills and flexibility to choose what you want to do."

Where can Science take you?

So many jobs require an understanding of Science, it would be impossible to list them all. Apart from the obvious, such as research scientist, laboratory technician or Science teacher, they include jobs in engineering, healthcare, environmental work, architecture, construction and catering, to name but a few.

What will you study if you choose Science?

This course covers topics in all three sciences:-

Biology

Cell biology
Organisation; Infection and response
Bioenergetics
Homeostasis and response
Inheritance, variation and evolution
Ecology

Chemistry

Atomic structure and the periodic table
Bonding, structure, and the properties of matter
Quantitative chemistry
Chemical changes
Energy changes
The rate and extent of chemical change
Organic chemistry
Chemical analysis
Chemistry of the atmosphere
Using resources

Physics

Energy
Electricity
Particle model of matter
Atomic structure
Forces
Waves (light and sound)
Magnetism and electromagnetism

How will you be examined?

There are six papers: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas. Each paper is 1 hour 15 minutes long.

Which exam board?

AQA

Which resources will be required?

Textbooks:

- AQA GCSE Biology for Combined Science (Trilogy) Student Book
  ISBN 978-0-19-835926-5
- AQA GCSE Chemistry for Combined Science (Trilogy) Student Book
  ISBN 978-0-19-835927-2
- AQA GCSE Physics for Combined Science (Trilogy) Student Book
  ISBN 978-0-19-835928-9
- AQA GCSE Combined Science (9-1) Required Practicals Lab Book
  ISBN 978-0-00-829164-8

Which potential school trips will you go on?

The Science Museum
The Natural History Museum
Cern, Switzerland (3 days and 2 nights)

GCSE Option 1

- French
- Spanish
- Latin

French and Spanish

Build your communication, interpersonal, intercultural, and public speaking skills

Why study Modern Foreign Languages?

"To have another language is to possess a second soul" Charlemagne

- Learning a modern foreign language can be a thrilling and enriching experience that opens up a world of opportunities. Not only will you gain valuable skills for future job prospects and international communication, but you'll also broaden your cultural understanding and appreciation for different ways of life. Whether you're planning to travel the world, meet new people, or immerse yourself in new cultures, having the ability to speak another language is an invaluable asset. And the best part? Learning a foreign language can be fun and fulfilling! From discovering new words and phrases to singing songs and watching movies in your target language, you'll enjoy the journey as you build your language skills.

Where can Modern Foreign Languages take you?

A new language could offer you:

- enhanced communication and adaptability skills
- deeper cultural awareness
- the edge in the jobs market
- flexibility to travel, study or work abroad

Why learn French?

- French is one of the most widely spoken languages in the world, with over 200 million people using it as their first language
- French is the second most studied language in the world, making it a valuable skill to have for future job opportunities
- French is an official language of the United Nations, the European Union, NATO, and many other international organisations, making it a valuable tool for global communication
- Learning French can improve cognitive skills such as problem-solving, critical thinking, and memory retention
- French is a Romance language, which means that it is related to many other languages spoken in Europe, including Spanish, Italian, and Portuguese. This can make it easier for English speakers to learn
- Knowing French can enhance cultural awareness and understanding of French-speaking countries and their customs, history, and literature
- French is a popular tourist destination, and speaking the language can make travelling to France and other French-speaking countries much more enjoyable

Why learn Spanish?

- Spanish is the second most widely spoken language in the world, with over 460 million native speakers
- Spanish is the second most studied language globally, making it a valuable asset for future job opportunities
- Spanish is the official language in 21 countries and is widely used in business, tourism, and international relations
- Spanish is relatively easy to learn for English speakers, and can serve as a stepping stone to learning other Romance languages
- Many famous works of literature, art, and music are in Spanish, giving students the opportunity to gain a deeper appreciation for these works
- Studying Spanish can broaden pupils' perspectives and enhance their understanding of different cultures, leading to greater empathy and appreciation for diversity

What will you study if you choose Modern Foreign Languages?

- At Thomas's Putney Vale pupils have the opportunity to study a Modern Foreign Language at GCSE: French or Spanish

- The specification covers three distinct themes. Students are expected to understand and provide information and opinions about these themes relating to their own experiences and those of other people, including people in countries/communities where French and Spanish are spoken

FRANCE

Theme 1: Identity and culture
- Topic 1: Me, my family and friends
- Topic 2: Free-time activities and technology
- Topic 3: Customs and festivals in French/ Spanish countries/communities

Theme 2: Local, national, international and global areas of interest
- Topic 4: Home, town, neighbourhood and region
- Topic 5: Holidays

Theme 3: Current and future study and employment:
- Topic 6: My studies, life at school/college, education post-16

Theme 4: Future aspirations, study and work
- Topic 7: Jobs, career choices and ambitions

Theme 5: International and global dimension
- Topic 8: Protecting the environment, volunteering and ethical shopping

How will you be examined?

- There are four exams each with equal weighting (25%)
- Students may be entered for either Foundation Tier or Higher Tier but they must enter at the same Tier for all four skills.
- The exams will be measure how students have achieved the following assessment objectives:
- AO1: Listening – understand and respond to different types of spoken language
- AO2: Speaking – communicate and interact effectively in speech
- AO3: Reading – understand and respond to different types of written language
- AO4: Writing – communicate in writing

Which exam board?

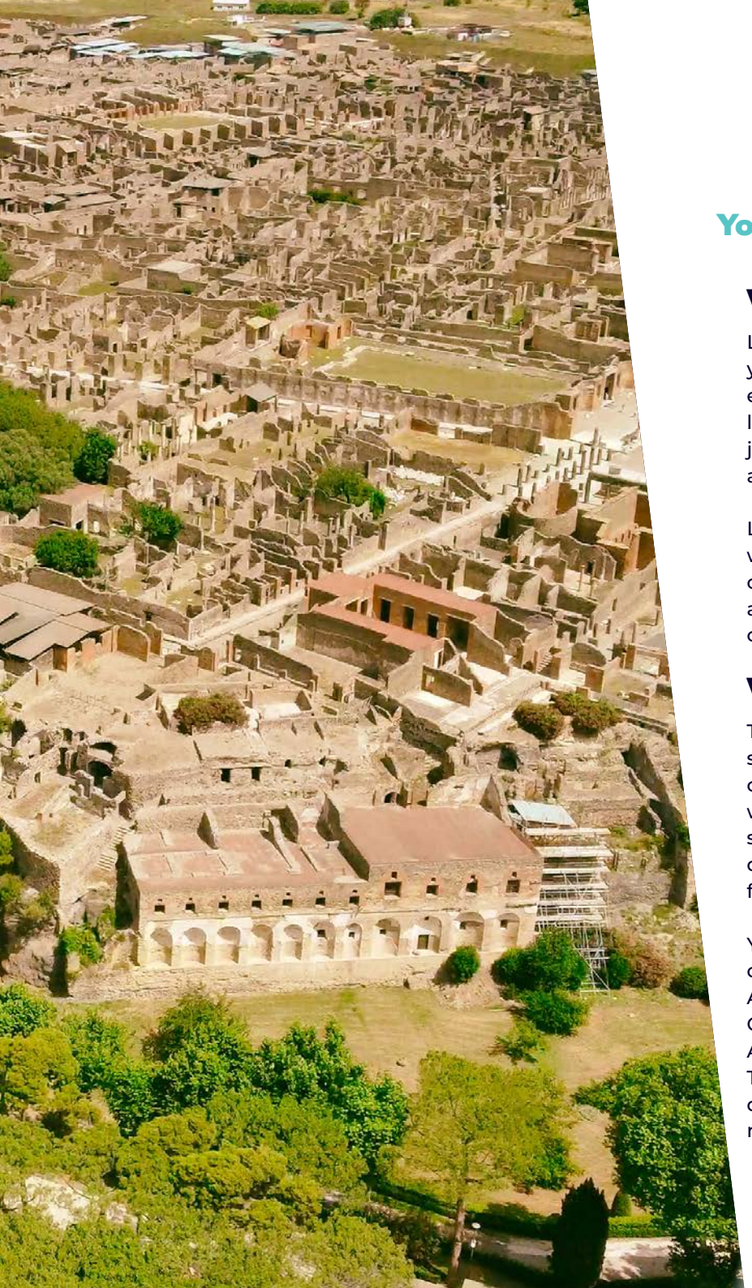
- Edexcel

What resources will be required?

- Edexcel GCSE French Foundation & Higher
- Edexcel GCSE Spanish Foundation & Higher
- Activelearn: Resources, Digital book, Assessments, MarkBook

What potential school trips will you go on?

- Trips to France and Spain
- Educational visit to the French/Spanish Institute
- Cinema, art and theatre trips



Latin

You get three for the price of one!

Why study Latin?

Latin is interesting, not to mention fun if you like problem solving, code cracking and everything that goes along with learning new languages. The study of Latin also involves not just language, but Roman civilisation, as well as Latin literature.

Latin is a very rigorous subject. The language will help you to improve your understanding of English grammar, as well as your vocabulary and your ability to figure out the definitions of words based on the root word in Latin.

Where can Latin take you?

The wide range of skills you develop as you study Latin can be applied to any career you choose. Through analysis of the language you will develop problem-solving and code cracking skills, as well as the ability to explore and think deeply - the ability to be analytical is invaluable for any career path.

You can apply it to degree courses in Ancient or Modern Languages, English Literature, Ancient or Modern History, not to mention Classics, Classical Civilisation, Archaeology, Anthropology...the world is really your oyster. The key is to recognise the skills that you will develop, not necessarily the fact that you can read original Latin poetry.

What will you study if you choose Latin?

You will learn various aspects of Latin grammar and syntax so that you can recognise and translate Latin sentences. You will also learn vocabulary from a defined list to help you with translations and comprehensions.

For Paper 2: Latin Literature and Sources (Themes) you will translate and analyse selections of (adapted) Roman literature in prose and verse alongside a theme such as Superstition and Magic or Travel by Land and Sea. You will also study original source materials such as paintings, sculpture and other artefacts; and understand how they fit into the context and theme you are studying.

For Paper 3: Roman Civilisation you will learn about various aspects of the Ancient Roman world such as slavery, the baths, the layout of a Roman villa, work and leisure. You will learn about these through the study of original written sources (in English), pictures and artefacts.

How will you be examined?

Paper 1 (Latin Language): A 1hr 30 min paper worth 50% of the qualification.

You are tested on your knowledge of Latin vocabulary, grammar, syntax and morphology through translation of an unseen passage of Latin, comprehension questions and a choice between grammar questions or writing four sentences from English into Latin.

Paper 2 (Latin Literature and Sources (Themes): A 1 hr 15 min paper worth 30% of the qualification.

You will be provided with a source booklet containing a blank copy of the themed prose and verse texts you have studied as well as the source material for your reference throughout the exam. This exam is, therefore, classed as 'open book'. You will have a series of short questions referring to the material in the booklet, followed by a longer response designed to draw on your knowledge of all the material.

Paper 3 (Roman Civilisation): A 1 hour paper worth 20% of the qualification.

You will answer a series of questions on your choice of the two Roman Civilisation topics.

Which exam board?

EDUQAS

Which resources will be required?

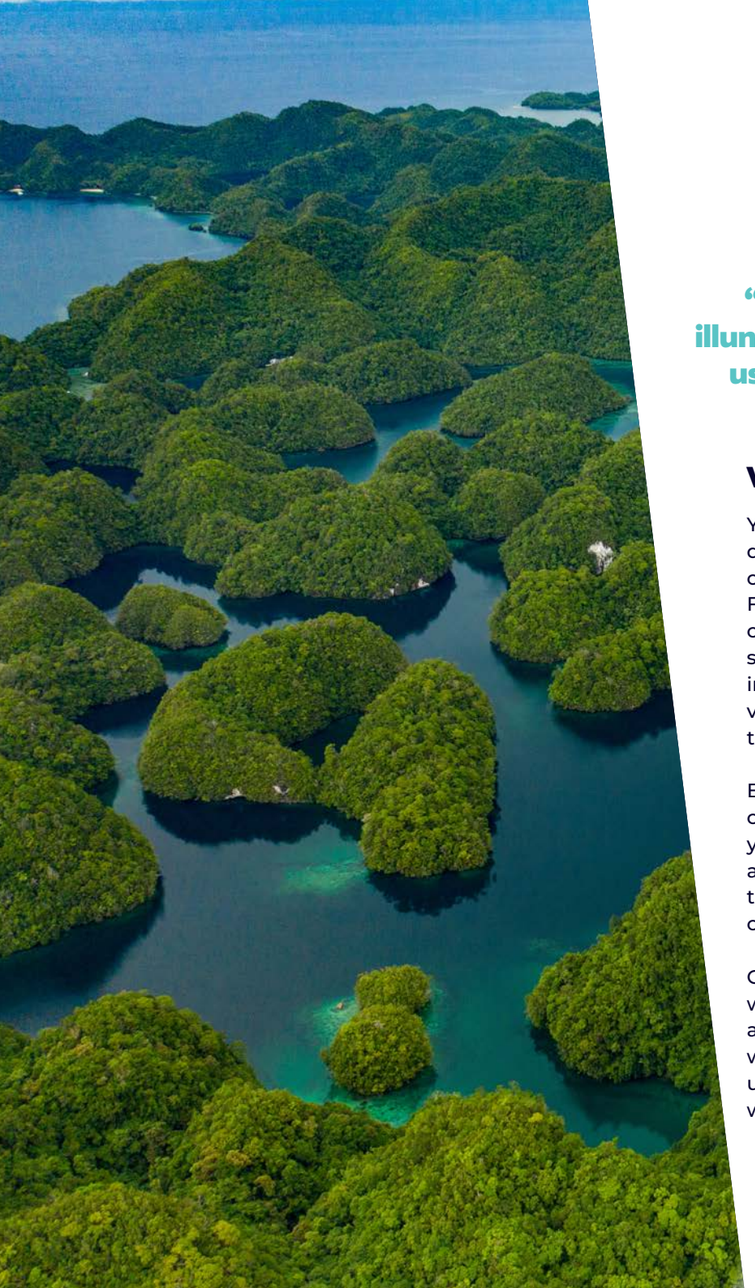
Textbooks are recommended according to the level of each pupils.
Resources provided by the department for other components of the GCSE later in the year.
Access to online resources and powerpoints linked to the GCSE papers.

Which potential school trips will you go on?

The British Museum
The Museum of London
The Roman Baths in Bath
Residential Trips abroad (South of France, Rome etc)

GCSE Option 2

- Geography
- History
- Religious Studies



Geography

"Geography explains the past, illuminates the present and prepares us for the future. What could be more important than that?"

Why study Geography?

Your Geography GCSE course has been designed to give you a broad understanding of global processes shaping the world today. From environmental concerns such as climate change and fracking, to the economic concerns such as debt in developing countries and inequality in the UK, the course will cover a vast array of topics seen in newsreels around the world.

By the end of the two years, you will be confident academically to perform well in your exams, but also moving forward into adult life, equipped with the knowledge to talk confidently on issues facing millions of people around the world.

Geography is a forward thinking subject, which will teach you about the past, present and future. The specific knowledge you learn will eventually fade from relevance, but the understanding of processes will remain with you for the rest of your life.

Where can Geography take you?

People with a knowledge of geography and geographic skills are extremely desirable to colleges and employers. During your course you will gain practical skills of how to conduct scientific research outdoors, learn how to interpret images, practical maths skills and write lengthy essays. It is this combination of skills that will allow you to access and be prepared for all types of further study. Furthermore, Geography graduates have the highest employment rate of any humanities subject, with a vast majority having 'professional level' jobs immediately after graduating. This shows how valuable skills learnt in geography lessons are in the workplace.

People who went to university with your geography teacher now work in established companies and organisations such as Transport for London, The Department for International Development, British Fashion Council, Savilles, British Land and Durham University.

What will you study if you choose Geography?

Component 1: Global Geographical Issues
- Hazardous Earth
- Development Dynamics
- Challenges of an urbanising world

Component 2: UK Geographical Issues
- The UK's evolving physical landscape
- The UK's evolving human landscape
- A fieldwork investigation

Component 3: People and Environment Issues- Making Geographical Decisions
- People and the biosphere
- Forests under threat
- Consuming energy resources
- Making a geographical decision

How will you be examined?

Paper 1 - Topics, 1, 2 and 3 (1.5 Hours)
Paper 2 - Topics 4, 5 and 6 (1.5 Hours)
Paper 3 - Topics 7, 8 and 9 (1.5 Hours)

Which exam board?

Edexcel B

Which resources will be required?

Grade 9-1 CGP Edexcel B Revision Guide
Publisher: CGP
ISBN: 9781782946212

Grade 9-1 CGP Edexcel B Exam Practice Workbook
Publisher: CGP
ISBN: 9781782946229

Grade 9-1 CGP Edexcel B Exam Practice Answer
Publisher: CGP
ISBN: 9781782946236

Which potential school trips will you go on?

Summer Term Field Trip to Brighton and Hove
Costa Rica Rainforest/Ecotourism Trip

History

History helps us to understand the present and consider the impact of our actions on the future.

Why study History?

By studying GCSE History, you will prove your ability to develop and extend your knowledge and understanding of specific key events, eras and societies in national and world History. History helps us to understand the present and consider the impact of our actions on the future. History enables you to develop a variety of skills, including; communication and problem solving. You will become a successful independent learner and a critical and reflective thinker.

Where can History take you?

Helps towards degree courses in...	Helps towards careers in...
History	Law
Politics	Politics
Archaeology	Public Sector
International Relations	Business
Economics	Marketing
English	Insurance
History of Art	Archaeology
American History	Economics
Business Studies	Teaching
Economics	Consultancy

What will you study if you choose History?

Paper 1: Thematic study and historic environment
Crime and punishment in Britain, c1000–present and Whitechapel, c1870–c1900: crime, policing and the inner city.

Paper 2: Period study and British depth study
British depth study:
Early Elizabethan England, 1558–88.
Period study:
Superpower relations and the Cold War, 1941–91

Paper 3: Modern depth study
Weimar and Nazi Germany, 1918–39

How will you be examined?

Paper 1: Thematic study and historic environment
Written examination: 1 hour and 15 minutes
30%* of the qualification 52 marks (16 for the historic environment, 36 for the thematic study)

Paper 2: Period study and British depth study
Written examination: 1 hour and 45 minutes
40%* of the qualification 64 marks (32 for the period study and 32 for the British depth study)

Paper 3: Modern depth study
Written examination: 1 hour and 20 minutes
30%* of the qualification 52 marks

1558 - 1588

Which exam board?

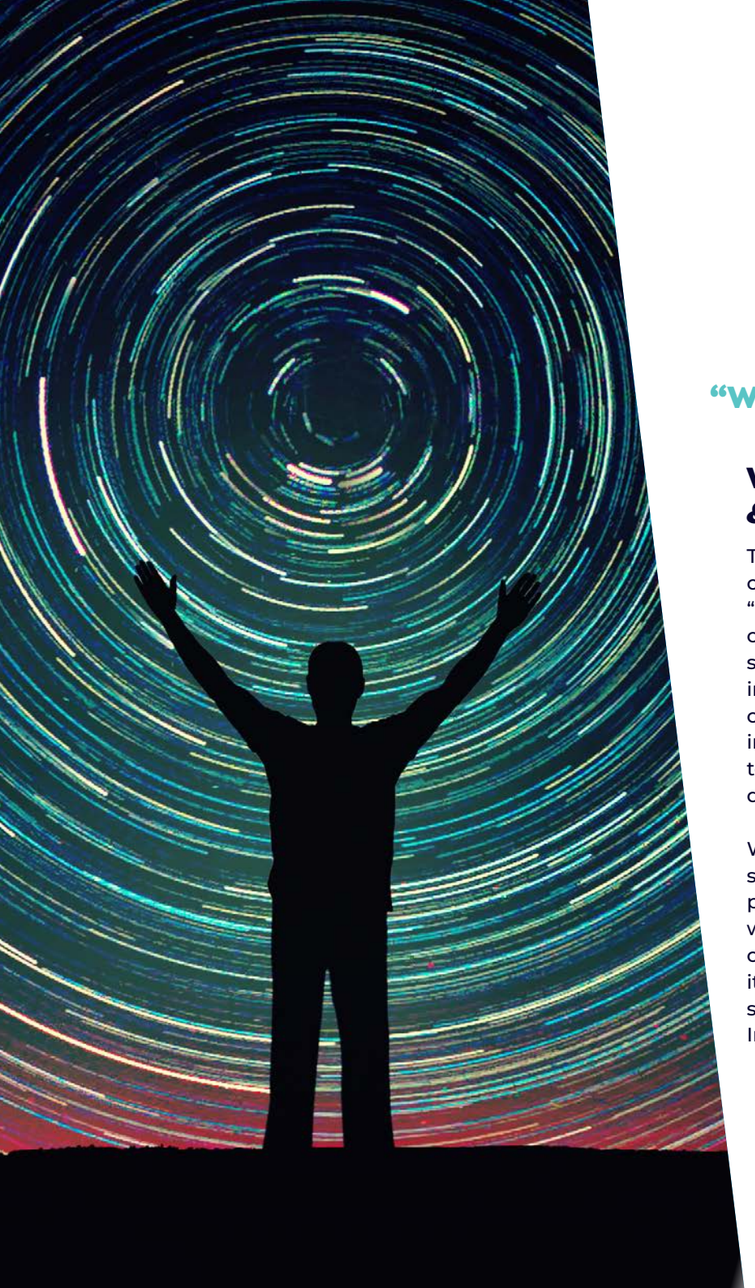
Edexcel

Which resources will be required?

Textbooks:	Workbooks / revision books:
• Edexcel GCSE (9-1) History Superpower relations and the Cold War, 1941–91 Student Book • Edexcel GCSE (9-1) History Crime and punishment through time, c1000–present Student Book • Edexcel GCSE (9-1) History Early Elizabethan England, 1558–1588 Student Book • Edexcel GCSE (9-1) History Weimar and Nazi Germany, 1918–1939 Student Book	• Edexcel GCSE (9-1) History Workbook: Early Elizabethan England, 1558-88 by Tony Hier • Edexcel GCSE (9-1) History Workbook: Weimar and Nazi Germany, 1918-39 by Philip Arkinstall • Edexcel GCSE (9-1) History Workbook: Crime and Punishment in Britain, c1000-present and Whitechapel, c1870-c1900 by Zoe Howells • Edexcel GCSE (9-1) History Workbook: Superpower relations and the Cold War, 1941-91 by Neil Owen

Which potential school trips will you go on?

The Museum of London
The Imperial War Museum
Berlin, Germany (3 days and 2 nights)
Whitechapel



Religious Studies

"What does it mean to be human?"

Why study Theology, Philosophy & Ethics?

Theology, Philosophy & Ethics (TPE) is a golden opportunity to explore the ultimate question "What does it mean to be human?" In a world of shifting values, technology and beliefs it seems more important than ever to engage in a critical analysis and evaluation of this and other big questions. At its heart TPE aims to interpret religion, philosophy and ethics in terms of human experience – what do we do and why do we do it?

We live in a diverse and sometimes complicated society: understanding religious, ethical and philosophical ideas, beliefs and outlooks, means we can have a more informed understanding of the world we live in and the people within it because beliefs inform actions and actions shape not just our lives but the world around us. In short, religion matters.

Where can Theology, Philosophy & Ethics take you?

TPE, (the GCSE is called 'Religious Studies') provides an excellent basis for further study at A Level and beyond. Students often go on to study Philosophy or Theology at A- level and/or degree level. TPE develops your skills of logical reasoning, the use and interpretation of evidence, evaluation and communication. Amongst careers available to you are: law, travel, advertising, human resources, diplomacy, publishing, broadcast and print journalism, media and teaching.

What will you study if you choose TPE?

You will learn how religion, philosophy and ethics form the basis of our culture, and develop valuable skills that will help prepare you for further study and the wider world. You will develop your knowledge and understanding of religion by exploring its significance, impact of beliefs, teachings, sources, practices, ways of life and forms of expressing meaning. You will also have the opportunity to express your personal responses and insights on fundamental questions about identity, belonging, meaning, purpose, truth, values and commitment.

You will study the beliefs and practices of two *religions*: Christianity and Islam.

Further to this, you will study four ethical topics, or themes:

- (i) Relationships and Families;
- (ii) Religion, peace and conflict;
- (iii) Religion, crime and punishment;
- (iv) The existence of God.

How will you be examined?

There are two modules and each is assessed through a 1 hour 45 minute examination at the end of the two year course. Each paper is worth 50% of your Religious Studies GCSE and has a range of multiple choice, short answer, and essay-style questions.

Paper 1 will examine you on *Religion* – Christianity and Islam

Paper 2 will examine you on *Themes* – (i) Relationships and Families; (ii) Religion, peace and conflict; (iii) Religion, crime and punishment and (iv) The Existence of God.

There is no coursework in this subject.
A variety of teaching and learning methods are employed throughout this course, ensuring that your individual needs are catered for.

Which exam board?

AQA

Which resources will be required?

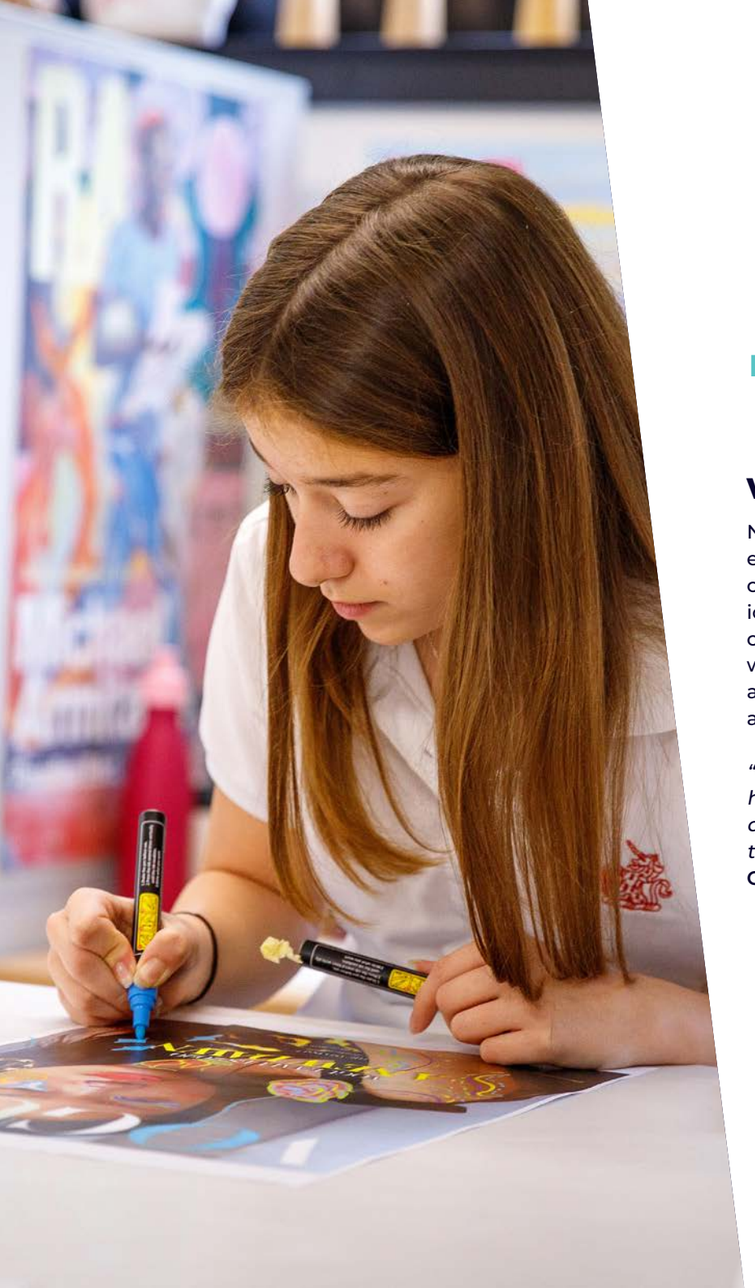
Textbooks:
GCSE Religious Studies for AQA A: Islam
GCSE Religious Studies for AQA A: Christianity

Which potential school trips will you go on?

Visit places of worship local in our community.

GCSE Option 3

- Art
- Computer Science
- Design and Technology
- Drama
- Music
- Physical Education
- Triple Science



Art

Builds confidence and a sense of individual identity

Why study Art?

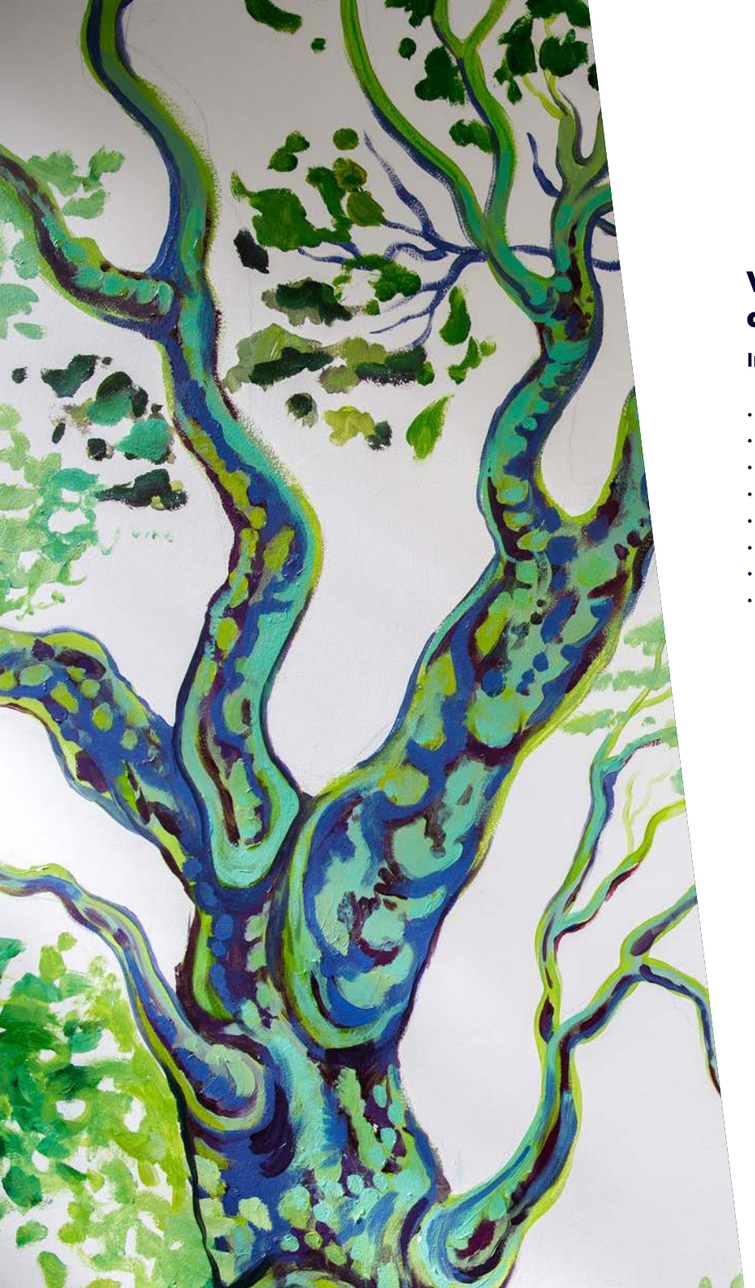
Not only does art make you happy, but it encourages self-expression and creativity and can build confidence and a sense of individual identity. Studying art also helps to develop critical thinking and the ability to interpret the world around us. Art allows you to explore and acquire new skills and knowledge of different art forms, media, and techniques.

"Creativity is critical thinking and without it how are you going to open up and ask harder questions? Art opens up those possibilities to think beyond what we already know." – **Catherine Opie.**

Where can Art take you?

Studying the arts teaches determination and resilience – qualities beneficial to any career.

Helps towards degree courses in...	Helps towards careers in...
Art and Design	Media, Film and Theatre
Textiles	Interior Design
Fashion	Photography
Photography	Fashion and Textiles
Illustration	Printmaking
Interior Design	Illustration
Animation	Graphic Design
Technical Arts and Special Effects	Artist
Film	Art Curator
Set Design	Art Therapist
Sculpture	Visual Merchandising
	Make-up Artist



What will you study if you choose Art?

In Component 1 and Component 2

- drawing
- painting
- sculpture
- installation
- photography and the moving image
- printmaking
- mixed media
- land art

How will you be examined?

Component 1: Portfolio
What's assessed:
A portfolio that in total shows explicit coverage of the four assessment objectives. It must include a sustained project evidencing the journey from initial engagement to the realisation of intentions and a selection of further work undertaken during the student's course of study.

How it's assessed:
- No time limit
- 96 marks
- 60% of GCSE

Component 2: Externally Set Assignment
What's assessed:
Students respond to their chosen starting point from an externally set assignment paper relating to their subject title, evidencing coverage of all four assessment objectives.

How it's assessed:
- Preparatory period followed by 10 hours of supervised time
- 96 marks
- 40% of GCSE

Which exam board?

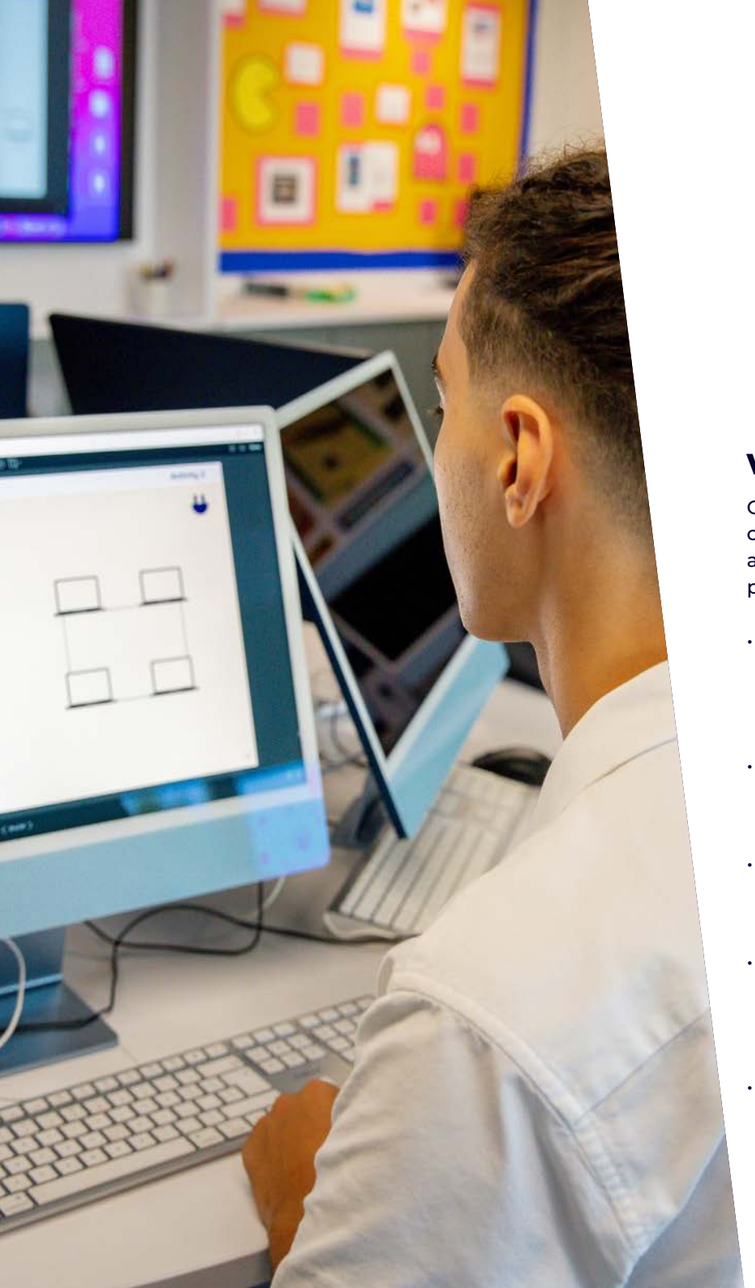
AQA

Which resources will be required?

A3 Sketchbook

Which potential school trips will you go on?

Tate Modern
Tate Britain
Royal Academy
St Ives



Computer Science

Solve complex, challenging problems

Why study Computer Science?

Computer Science gives you an excellent opportunity to investigate how computers work and how they're used, and to develop computer programming and problem solving skills.

- Studying Computer Science empowers you to solve complex, challenging problems, enabling you to make a positive difference in the world.
- Computing skills are essential in a wide range of professions, from astronomy to financial analysis – not just in IT related jobs!
- There are many opportunities for travel and/or remote working for people with high-level computing skills.
- The future possibilities for people with Computer Science skills are unlimited, and these skills are only going to become more important.
- Computers are everywhere so understanding them puts you in charge of your world.

Where can Computer Science take you?

Computer Science is excellent preparation if you want to work or study in areas that rely on the skills you'll develop, especially when they're applied to technical problems. These areas include engineering, financial and resource management, science and medicine.

What will you study if you choose Computer Science?

- Computational thinking – understanding of what algorithms are, what they are used for and how they work; ability to follow, amend and write algorithms; ability to construct truth tables.
- Data – understanding of binary, data representation, data storage and compression.
- Computers – understanding of hardware and software components of computer systems and characteristics of programming languages.
- Networks – understanding of computer networks and network security.
- Issues and impact – awareness of emerging trends in computing technologies, and the impact of computing on individuals, society and the environment, including ethical, legal and ownership issues.
- Problem solving with programming:
  - understanding what algorithms are, what they are used for and how they work in relation to creating programs
  - understanding how to decompose and analyse problems
  - ability to read, write, refine and evaluate programs.

How will you be examined?

Component 1: Computer Systems
Written examination: 1 hour and 30 minutes
50% of the qualification
80 marks

Component 2: Computational thinking, algorithms, and programming
Written examination: 1 hour 30 minutes
50% of the qualification
80 marks

In addition to the two examined units, you will undertake several practical programming tasks to develop your programming skills in a high level language (Python). The skills you learn in the practical programming will be assessed in the component 2 exam.

Which exam board?

OCR

Which resource will be required?

GCSE Computer Science OCR (9-1) Complete Revision and Practice
Publisher: CGP, ISBN-13: 9781789085587

Which potential school trips will you go on?

The National Museum of Computing, Bletchley

Did you know that the first computers were people?! During this day you will go on a journey through time exploring why electronic computers were invented and get to see (and use!) key machines through history, from the birth of computing to today.

Design and Technology

Explore a broad, deep and inspiring curriculum

Why study Design and Technology?

Through Design and Technology students will explore a broad, deep and inspiring curriculum and will prepare for a rapidly changing world, in which technology is a major disruptive force. Through research and experimentation, students will identify what it is that makes us uniquely human and how we can harness and embellish that through good design.

Where can Design and Technology take you?

Helps towards degree courses in...	Helps towards careers in...
Architecture	Engineering
Graphic Design	Architecture
Engineering	Graphics
Industrial Design	Information technology
Mechanics	Interior design
Product Design	Industrial and product design
Interior Design	Renewable energy
Environmental Engineering	Civil engineering
Landscape Architecture	Carpentry
Civil/Mechanical Engineering	UI/UX
Art and Design	Landscape Architecture
Furniture Design	

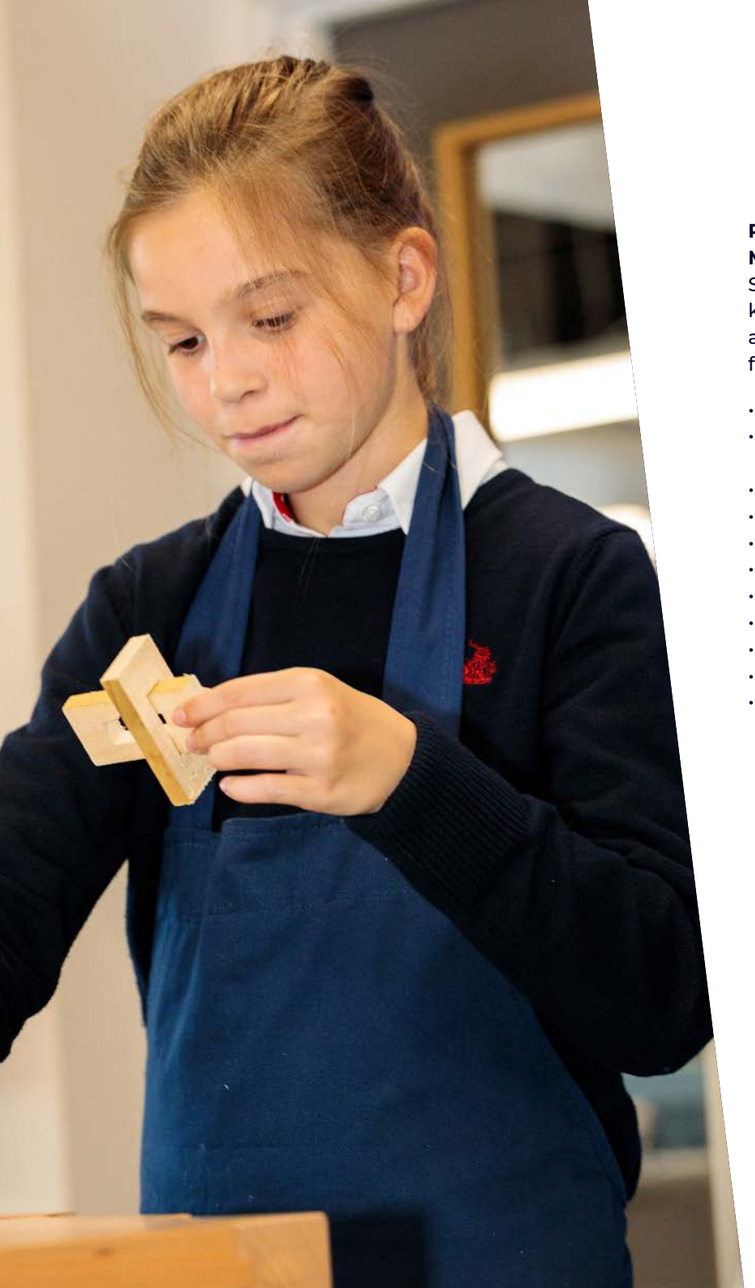
What will you study if you choose Design and Technology?

Paper 1 – Section A – Core technical principles
Students will develop a breadth of core technical knowledge and understanding that consists of:

- new and emerging technologies
- energy generation and storage
- developments in new materials
- systems approach to designing
- mechanical devices
- materials and their working properties.

Paper 1 – Section B – Specialist technical principles
In addition to the core technical principles, students will develop an in-depth knowledge and understanding of the following specialist technical principles:

- selection of materials or components
- forces and stresses
- ecological and social footprint
- sources and origins
- using and working with materials
- stock forms, types and sizes
- scales of production
- specialist techniques and processes
- surface treatments and finishes.



Paper 2 - Section C - Designing and Making Principles
Students will need to demonstrate and apply knowledge and understanding of designing and making principles in relation to the following areas:

- investigation, primary and secondary data
- environmental, social and economic challenge
- the work of others
- design strategies
- communication of design ideas
- prototype development
- selection of materials and components
- tolerances
- material management
- specialist tools and equipment
- specialist techniques and processes

How will you be examined?

Paper 1: Thematic study and historic environment
Written exam: 2 hours, 100 marks, 50% of GCSE

Section A – Core technical principles (20 marks)
A mixture of multiple choice and short answer questions assessing a breadth of technical knowledge and understanding.

Section B – Specialist technical principles (30 marks)
Several short answer questions (2–5 marks) and one extended response to assess a more in depth knowledge of technical principles.

Section C – Designing and making principles (50 marks)
A mixture of short answer and extended response questions.

Non-exam assessment (NEA): A portfolio of work taking approximately 30–35 hours, 100 marks, 50% of GCSE

Which exam board?

AQA Which resources will be required?

Which resources will be required?

Textbooks

- AQA GCSE (9-1) Design and
- AQA GCSE (9-1) Design and Technology: All material categories and systems
- AQA GCSE (9-1) Design and Technology: Timber, metal-based materials and polymers

Which potential school trips will you go on?

- The Design Museum
- The V&A

Drama

Develop your generosity, patience, ability to compromise and communication skills

Why study Drama?

- No subject teaches you how to **work well in a team** quite like Drama. It will allow you to develop your generosity, patience, ability to compromise and communication skills.
- You will learn **perseverance**. This skill also makes you more able to adapt your behaviour for various situations.
- In Drama you will be asked to improvise. This allows you to think on your feet, develop your **leadership skills** and become more proactive.
- Drama stimulates you to be **constantly creative**. You will regularly come up with exciting, functional and convincing ideas to a deadline.
- When you act in Drama you develop **humility** by putting yourself into another person's shoes in order to identify with them. This will open your mind and improve the way you interact with people.
- Analysing Drama productions allows you to develop your **critical thinking** skills.
- You will **gain confidence**. You will be able to develop your performance skills and overcome the fear of making mistakes in a fun, creative and supportive environment.

Where can Drama take you?

Helps towards degree courses in...	Helps towards careers in...
Drama & Theatre Studies Music Design English Language & Literature Performing Arts Creative Writing Dance Technical Theatre Psychology Business Broadcasting Journalism	Actor Broadcast presenter Community arts worker Dramatherapist Runner, broadcasting/film/video Theatre director or Manager Theatre stage manager ... and these jobs with transferable Drama skills: Arts administrator Choreographer Teacher Media researcher Music producer Special effects technician

Which exam board?

Edexcel

Which resources will be required?

Copies of the set texts

Which potential school trips will you go on?

Theatre trips to see major productions for review purposes, such as
Operation Mincemeat
The Woman in Black

What will you study and how will it be examined?

	Component 1	Component 2	Component 3
Title	Devising	Performance from Text - Component 2	Theatre Makes in Practise and live theatre review - Component 3
What Will I Do?	Perform a devised, group piece and create a portfolio about the process. Evaluate the work and key skills included.	Perform two extracts from a text, for example 'Blood Brothers' or a play different from the set text in C	Explore one play in depth (for example 'Blue Stockings' and learn about the process of creating a play. Review a piece of live theatre exploring technical elements
What skills are being assessed? ***AO = assessment objective**	AO*1 Create and develop ideas to communicate meaning for theatrical performance	AO*2 Apply theatrical skills to realise artistic intentions in live performance	AO*3 Demonstrate knowledge and understanding of how drama and theatre are developed and performed
	AO*4 Analyse and evaluate your own work and the work of others		
What's the exam or assessment?	Assessed by your teacher and moderated by an examiner.	Assessed by a visiting examiner.	Written examination 1 hour 45 minutes.

Music

Music benefits other subjects

Why study Music?

"*Music gives a soul to the universe, wings to the mind, flight to the imagination, and life to everything.*" – **Plato**

Music is an academic subject in its own right, but it actually benefits other subjects too. A recent study in the UK found that playing a musical instrument appears to enhance general performance in other subjects at GCSE (Cambridge Assessment, 2020). Other studies have shown that music benefits learning by activating all areas of the brain: auditory (sound processing); motor (rhythm processing); and limbic (emotions).

GCSE music involves written, analytical, practical and social/personal skills such as:

- independent learning: having to be disciplined about practising
- team work: particularly if you're involved in groups or ensembles, concerts and performances
- performance and presentation skills which are useful for any job/career
- listening: this is highly developed in musicians and is an important part of the course
- analytical and essay-writing skills
- confidence and self-esteem: which has a knock-on effect in all areas of life and learning
- creativity and self-expression: helping young people to think differently and harness the power of their imagination

If you are an aspiring musician and can sing or play an instrument to Grade 3 standard then this is the course for you.

Where can Music take you?

Career options for musicians:	Other career options related specifically to music include:
• Solo and ensemble performance • Composition and arranging • Creative project work (improvisation, collaborations with dance, music technology) • Instrumental/vocal teaching/project leadership • Community project work • Collaborative projects with other media/art forms	• Arts administration and management • Copyright administration in composition and recordings • Librarianship • Management, representation and promotion • Music publishing • Music therapy • Production, retailing and distribution of music instruments • Production, distribution and retailing of sound recordings

What will you study if you choose Music?

There are three components of study in Music GCSE: Performing, Composing and Appraising.

Component	Overview	Assessment
Component 1 Performing 30% (Non-examined assessment)	2 performances Solo – minimum 1 piece – minimum 1 minute Ensemble – minimum 1 piece – minimum 1 minute Together total minimum of 4 minutes across the solo and ensemble pieces	Minimum total 2 pieces 30 marks each Total of 60 marks
Component 2 Composing 30% (Non-examined assessment)	2 compositions 1 to set brief – minimum 1 minute 1 free composition – minimum 1 minute Together total minimum of 3 minutes	2 pieces 30 marks each Total of 60 marks
Component 3 Appraising 40% (Exam)	4 Areas of Study with 2 Set Works each: • Instrumental Music 1700–1820 • Vocal Music • Music for Stage and Screen • Fusions	Exam 1hr 45mins Total of 80 marks

Which exam board?

Edexcel

Which resources will be required?

Step Up To GCSE Music by Paul Terry
(Rhinegold Publishing)

Edexcel GCSE Music
Study Guide by Paul Terry
(Rhinegold Publishing)

Edexcel GCSE Music
Listening Tests by Simon Rushby
(Rhinegold Publishing)

Edexcel GCSE Music
Revision Guide by Paul Terry
(Rhinegold Publishing)

Which potential school trips will you go on?

- Attend Classical Concerts featuring leading orchestras and performers at some of the world's greatest venues including the Royal Albert Hall, the Southbank Centre and the Wigmore Hall.
- Visits to see Operas and Musicals in London's West End.
- Music Tours to Europe.

Physical Education

Opens the door to a wide range of career options

Why study PE?

By studying GCSE PE you will have the opportunity to obtain insight and knowledge into the world of sports performance. You will gain the opportunity to perform in three different sports through the non-examined assessment component and develop a wide range of knowledge into physical activity and wellbeing.

GCSE opens the door to a wide range of career options and enables you to develop vital skills which are needed in the workplace such as collaboration, communication and reflective analysis.

Where can PE take you?

- Sports Science
- Sports Journalism
- Sports and Exercise Nutrition
- Physiotherapy
- Performance Analysis
- Strength and Conditioning Coaching
- PE teaching
- Sports coaching
- Youth Development
- Sport and Social Change
- Sport Psychology
- Sports Rehabilitation
- Sports Marketing
- Sports Performance analysis and talent Identification

What will you study if you choose PE?

Paper 1 - 1 hour 15 minutes - 30% of GCSE	Paper 2 - 1 hour 15 minutes - 30% of GCSE	Practical Performance - 30% of GCSE	Coursework - 10% of GCSE
The Human Body and movement in Physical Activity and Sport	**Socio-Cultural influences and well being in physical activity and Sport**	**Practical Performance in Physical Activity and Sport**	**Analysis and evaluation of performance to bring about improvement in one activity.**
Applied anatomy and physiology: • The structure and functions of the musculoskeletal system • The structure and functions of the cardio-respiratory system. • Anaerobic and aerobic exercise. • The short and long term effects of exercise • Planes and axes of movement • Effective use of a warm up and cool down • Physical training • How to optimise training and prevent injury • Use of data • Present and analyse data	Sports psychology: • Classification of skills • Goal setting and SMART targets • Basic information processing • Feedback on performance • Mental preparation for performance • Social Cultural influences: • Engagement patterns in different social groups • Commercialisation in physical activity and sport • Ethical and social issues • Health fitness & wellbeing: • Nutrition and hydration • Consequences of a sedentary lifestyle • Physical, emotional and social health and well being.	Practical performance in three different physical activities in the role of player/ performer. • One in a team activity, one in an individual activity and a third in either a team or an individual activity. • For each of their three activities, students will be assessed in skills in progressive drills (10 marks per activity) and in the full context (15 marks per activity).	Written or live spoken analysis and evaluation of performance to bring about improvement in one activity. • Students will be assessed on their analysis (15 marks) and evaluation (10 marks) of performance to bring about improvement in one activity.

Which exam board?

AQA

Which resources will be required?

Textbook: Hodder Education AQA GCSE (9-1)
ISBN: PE 978139832651

What potential school trips will you go on?

Sports tours, sports matches, tours of venues and facilities. University visits to universities to use elite sport testing facilities. Copper box training gym.

Who should take PE?

- If you have an interest in living a healthy and active lifestyle
- If you are on the A team in two sports at Thomas's
- If you participate in sports clubs outside of school

Triple Science

Biology - the study of organisms

Why study Biology?

Biology is the study of life. Biologists study organisms (plants, animals and microorganisms) and the relationship they have with their environment.

Where can Biology take you?

Job titles you might see for biologists:

Accountant
Bioengineer
Bioinformatician
Clinical technician
Curator
Doctor
Epidemiologist
Geneticist
Librarian
Mycologist
Neuroscientist
Patent lawyer
Press officer
Publisher
Teacher
Zoologist

Science and research

Other interesting science related roles would greatly benefit from your GCSE or further A Level study of Biology. You could use your skills to study crime scene evidence as a Forensic Scientist for example.

Medicine and healthcare

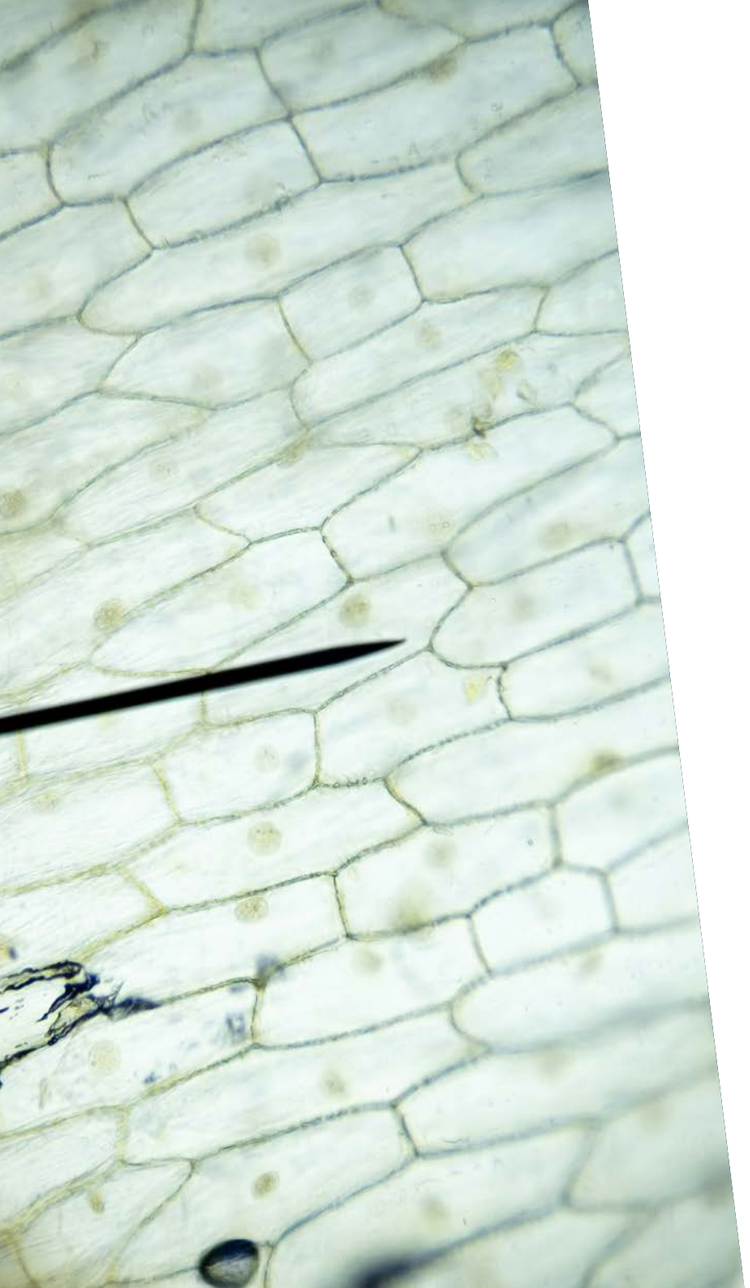
Jobs like being a Doctor or Pharmacist typically require GCSE and A Level Biology to apply to medical school to study a degree in medicine. Genetic modification, neurotechnology and resurrecting extinct species are the new frontiers of Biology.

Sustainability

Your knowledge and interest in the environment and preservation would assist your work in agricultural roles like Farming, Ecology and Landscaping.

Sport and fitness

Both GCSE and A Level Biology will contribute to careers in sports and fitness like Physiotherapy or Personal Training. Your comprehension of the body and the way it works would allow you to bring well-rounded knowledge to your role.



What will you study if you choose Biology?

- Cell biology
- Organisation
- Infection and response
- Bioenergetics
- Homeostasis and response
- Inheritance, variation and evolution
- Ecology
- Key ideas

How will you be examined?

- Two exams, each 1 hour 45 minutes long
- Exam 1 assesses topics 1-4
- Exam 2 assesses topics 5-7

Which exam board?

AQA

Textbooks	Workbooks / revision books:
• AQA GCSE Biology Student Book ISBN 978-0-19-835937-1	• AQA GCSE Biology (9-1) Required Practicals Lab Book ISBN 978-0-00-829161-7

Which potential school trips might I go on?

The Science Museum
The Natural History Museum
Cern, Switzerland (3 days and 2 nights)

Triple Science

Chemistry - the study of matter

Why study Chemistry?

Chemistry is the study of matter, including its composition, properties, and structure; how it changes; and how it interacts with energy.

Chemistry helps students to develop research, problem solving and analytical skills. It also helps to students to challenge ideas and make reasoned arguments through logic and step-by-step reasoning. Chemistry often requires teamwork and communication skills too, which is great for project management.

Where can Chemistry take you?

Helps towards careers in...

Analytical Chemist
Chemical Engineer
Chemistry Teacher
Forensic Scientist
Geochemist
Hazardous Waste Chemist
Materials Scientist
Pharmacologist
Toxicologist
Water Chemist

Many Chemistry students also find jobs outside of science like the law, finance, journalism, the government and teaching

What will you study if you choose Chemistry?

- Atomic structure and the periodic table
- Bonding, structure, and the properties of matter
- Quantitative chemistry
- Chemical changes
- Energy changes
- The rate and extent of chemical change
- Organic chemistry
- Chemical analysis
- Chemistry of the atmosphere
- Using resources

How will you be examined?

- Two exams, each 1 hour 45 minutes long
- Exam 1 assesses topics 1-5
- Exam 2 assesses topics 6-10

Which exam board?

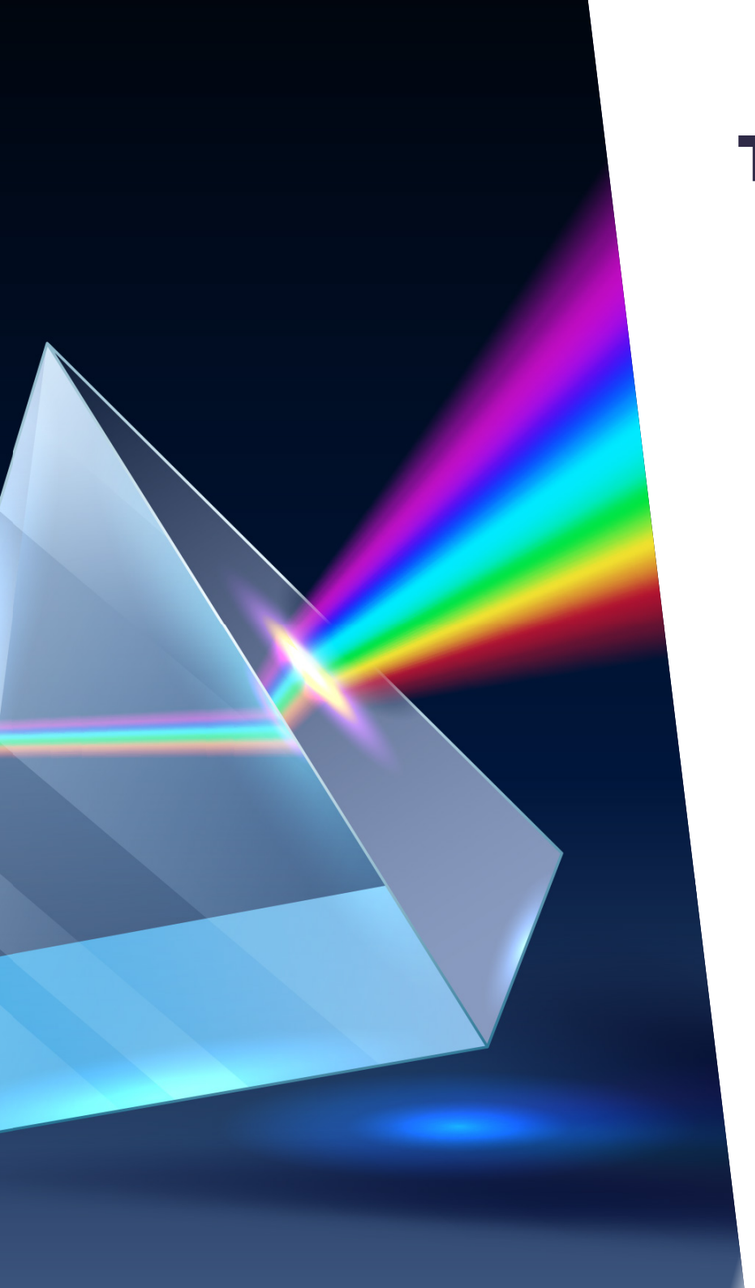
AQA

Which resources will be required?

Textbooks	Workbooks / revision books:
• AQA GCSE Chemistry Student Book ISBN 978-0-19-835938-8	• AQA GCSE Chemistry (9-1) Required Practicals Lab Book ISBN 978-0-00-829162-4

Which potential school trips might I go on?

The Science Museum
The Natural History Museum
Cern, Switzerland (3 days and 2 nights)



Triple Science

Physics - universe from the largest galaxies to the smallest subatomic particles

Why study Physics?

If you like asking questions, Physics is the subject for you. Physics is the study of the universe from the largest galaxies to the smallest subatomic particles. Physicists investigate the laws that explain why all matter and energy in the known universe exists, where it comes from and how it behaves the way it does.

By studying physics all physics students improve key skills, such as problem solving, research, and analysis of data. With these skills you will be able to test new ideas as well as question and investigate other people's theories, which is useful for any kind of job that involves research or debate.

Where can Physics take you?

Employers across a whole range of industries are desperate for people with physics skills. The range of careers open to people with physics qualifications is broad and varied:-

Helps towards careers in...

Academic Researcher
Astronomer
Clinical Scientist
Geophysicist
Higher Education Lecturer
Metallurgist
Meteorologist
Nanotechnologist
Radiation Protection Practitioner
Research Scientist
Secondary School Teacher
Sound Engineer
Technical Author

Because of their ability to 'think big', and their transferable skills, Physics graduates often secure top management and policy positions. Areas like banking, finance, software, computing and consultancy industries all valuing skills from physics.

What will you study if you choose Physics?

- Energy
- Electricity
- Particle model of matter
- Atomic structure
- Forces
- Waves
- Magnetism and electromagnetism
- Space physics

How will you be examined?

- Two exams, each 1 hour 45 minutes long
- Exam 1 assesses topics 1-4
- Exam 2 assesses topics 5-8

Which exam board?

AQA

Which resources will be required?

Textbooks

- AQA GCSE Physics Student Book
  ISBN 978-0-19-835939-5

Workbooks / revision books:

- AQA GCSE Physics (9-1) Required Practicals Lab Book
  ISBN 978-0-00-829163-1

Which potential school trips will you go on?

The Science Museum
The Natural History Museum
Cern, Switzerland (3 days and 2 nights)

Be Kind
Be Thomas's

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