

A photograph of three young men standing outdoors in a grassy area with trees in the background. They are all wearing blue blazers, white shirts, and green and white striped ties. The man on the left is smiling and looking towards the other two. The man in the middle has curly hair and is looking towards the man on the right. The man on the right is smiling and looking towards the man in the middle. The background is a lush green field with trees and a building in the distance.

Sixth Form Options
Guidance & Course Details
2025/2027



We are a community forged from innovation, courage, confidence, inspiration and joy.

We inspire a life-long love of learning and provide academic excellence for pupils, staff and support staff. We have a culture of collaboration, coaching and challenge. We are brave in our pursuit of excellence: progress is driven by innovation and reflection.

The co-curriculum supports and enriches the academic curriculum through clubs, societies, trips and publications. We celebrate and explore the relationship between academic excellence and co-curricular participation: at different points in a school career, the focus upon each element will vary. Similarly, we maintain the balance between our focus upon promoting excellence and wide participation. We provide co-curricular opportunities to develop the character of everyone in the school - pupils, staff and support staff. All aspire to become more well-rounded, charming, confident, enthusiastic and independent. We work as a team, creating lasting bonds within our community.

We care for each other in a civilised, collaborative and respectful manner. That spirit creates a safe, inspiring and inclusive environment that promotes self-esteem. Our focus is upon the individual and the community: knowing and caring for everyone in the school, whether pupil, staff or support staff, creates a place in which people feel they belong, have shared purpose and have a role to play. We use our strength to serve the wider community beyond the school.

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Introduction

I hope you are excited about starting to think about the next stage of your education, a time in which you have greater choice and autonomy in what you spend your time studying. It is also true that choosing your A Levels might feel daunting. You will be conscious that you are making a decision which will impact your options for university and so for your career beyond, so it is vital that you take time and advice on this.

The purpose of this booklet is to enable you to make informed decisions. Making good choices now will help you to enjoy the Sixth Form, to flourish in your chosen disciplines and be in a strong position to apply to first-rate universities in a year or so.

The Merchant Taylors' Sixth Form

The choice open to you is a simple one.

- You need to choose four subjects to study in the Lower Sixth. You may choose just about any four subjects from this booklet that you wish. We will do our very best to try and accommodate all combinations – though not all combinations may be possible, in those cases we will let those individuals know as early as we can.
- Those interested in Further Maths should choose three non-Maths options and 'Maths & Further Maths'. If approved and you spend the Autumn of the Lower Sixth in an accelerated Maths class, you may be invited to swap one of your four subjects for Further Maths at Christmas of the Lower Sixth. Only those studying the FMSQ are eligible for this choice.
- You will see that there are two new subjects included this year: Classical Civilisation and Business Studies. At this stage we are not able to confirm if these courses will definitely be offered as we are currently gauging interest and feasibility. Therefore, if you choose one of these courses it will be important to have an alternative in mind in case it is not possible to offer these courses.
- Pupils should not choose both Economics and Business Studies, since the courses overlap.
- Pupils should not choose more than two 'new' subjects in their suite of four, if this is something you are considering please speak to Mr Manley or Dr Evans to discuss this further.



Jane Evans
Deputy Head (Academic)
jevans@mtsn.org.uk

- At Christmas of the Lower Sixth, we ask you to nominate three subjects which you intend to pursue through to A Level, and we ask your teachers about your progress in these subjects.
- A very few boys ask us if they can continue with four subjects (not including Further Maths) through to A Level; in exceptional circumstances this is appropriate, and we will discuss this with you if you think it a good idea. Most MTS boys prefer to do three A Levels and then pursue an EPQ, MOOCs, essay competitions and so on in order to broaden their experience.

This means that, for many, you will study something for a full term in the Lower Sixth for which you do not get a formal qualification. Education is about more than the accrual of pieces of paper, it is about broadening you as a person. By studying something in the Lower Sixth that isn't examined, you can choose something new – to test it out, or choose something that will enhance your other subjects, excite your interests and strengthen your application to university.

Alongside your chosen taught curriculum courses, you will also be following a unique extension and enrichment programme. Throughout the Lower Sixth you will have a weekly lecture on anything from Mental Health to polar exploration, prison reform to the life of a magician. After Christmas in the Lower Sixth, when curriculum time is freed-up, extension lessons begin for those seeking to apply to the most competitive courses at university. In addition, you will have time on timetable to complete Independent Study Courses (including the EPQ) and also one hour a week with an Academic Supervisor, who will encourage you to stretch yourself beyond your core studies.

Our Sixth Form curriculum is unique to MTS, although many schools imitate elements of it.





How do you choose your A Levels?

There are three questions that you should ask yourself in advance of making your choices:

- Which subjects do you most enjoy?
- Which subjects are you best at?
- What do you want to do when you leave the Sixth Form?

The first of these questions is the most important and often strongly linked to the second question. You will, almost certainly, be more enthused about doing that which you enjoy; you will work harder, enjoy your week more and will do better in those subjects. The choices you make now, whittling down 10 subjects to four, are hard. If you choose wisely then you will have an exciting and enjoyable two years, if not, then you will find it more of an unenjoyable slog and will not do as well as you could have done. Do not be afraid of challenge here; it can be immensely satisfying to take on an academically demanding subject and get to the heart of it. Equally, be realistic and honest with yourself about your strengths, and listen to MTS staff; these qualifications will have a big impact on your life after school.

You may, even at this stage, have a strong idea of what you want to do at university. However, you may not and that is also fine. All universities, especially the most competitive, have one thing in common; they want passionate and qualified pupils to study there. By choosing subjects that you enjoy and at which you excel, you will progress further in the Sixth Form. If you do this, then you will end up at the best university possible.

A report by The Sutton Trust concluded that irrespective of the course studied, graduates from the 13 most selective universities earn more and are far more likely to be in professional employment than graduates from less prestigious institutions. You stand a far better chance of getting into a top university if you study a subject you enjoy and are good at. Some vocational courses at university require at least AAA for entry, as well as specifying certain A Levels (e.g. Medicine requires Biology and Chemistry; Economics requires Mathematics). If you are interested in these courses then you need to choose the relevant subjects, but also be realistic about your prospects of attaining those grades.

Criteria

The entrance criteria for the Sixth Form at Merchant Taylors' are as follows:

- We expect you to have worked hard and made a positive contribution throughout your time here. Your attitude must be one of wholehearted engagement with school life.

- We expect you to make sensible and informed choices as to what to study for the Sixth Form. These choices need to reflect your abilities and need to have been discussed with school staff, including your Tutor and relevant teachers/Heads of Department.
- You will need to score at least an 8 grade at GCSE in order to study Biology, Chemistry, Mathematics or Physics.
- Since there is less continuity of material at A Level in other subjects, our principle is that you will need to score at least a 7 grade at GCSE to access other subjects.
- For new subjects, you should be expecting to score at least a 7 grade at GCSE in related disciplines as follows:
 - Business Studies: Maths and any Humanity subject
 - Philosophy: any Humanity subject
 - Politics: any Humanity subject
 - Psychology: any Humanity subject and Biology
 - Classical Civilisation: English literature
 - Economics: Maths at grade 8 is preferred although those achieving a grade 7 will be considered, and English at grade 7
- To be eligible for the Maths & Further Maths option, you will need to be in an accelerated set at GCSE, scoring a 9 grade and an A in FMSQ.
- Final approval of your A-level choices is at the discretion of the Head Master.

Parents' Evenings

In the first half of the Spring Term there are a series of Parents' Evenings; these serve a dual purpose. On one level, they allow boys and parents to talk to their subject teachers about the recent Fifth Form Assessments and to reflect upon what you could and should do next to progress still further. However, these meetings are also an opportunity to focus on the subjects that you might be considering taking forward for Sixth Form study. The subject teachers will, in most instances, be able to give a good idea as to whether you are suitable to study that subject in the Sixth Form. In some instances, they may wish to refer you to their Head of Department for further discussion.

The Parents' Evening is also a good opportunity to talk to your Tutors about any combinations of subjects that you may be considering. Tutors will have a very good idea of areas in which you excel and will also have a raft of professional experience, which will help guide you on which subjects work well with each other and how they can provide you with a number of routes to enter excellent universities.

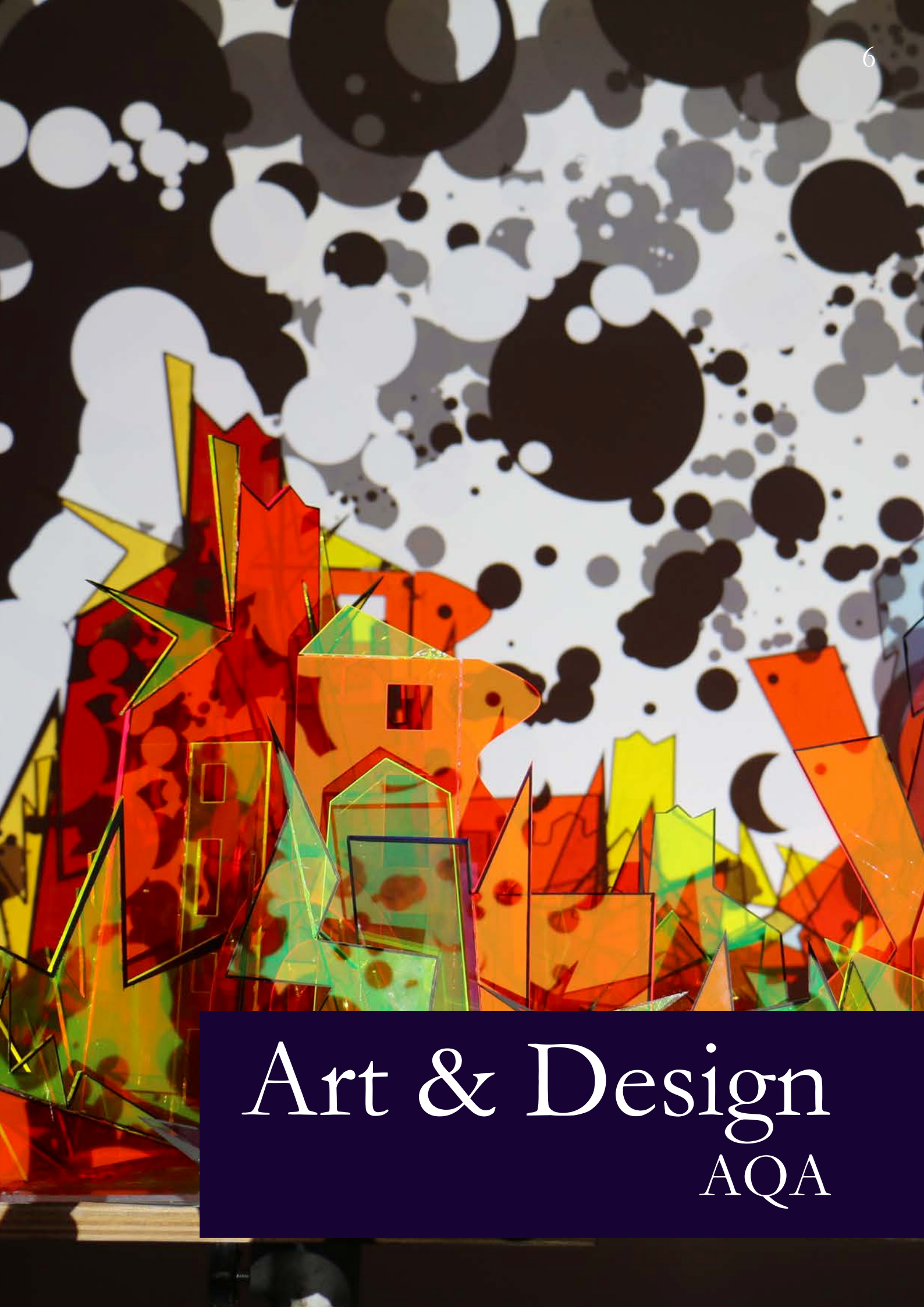
The Process

In November of the Fifths, we ask you to express a provisional interest in five subjects so Heads of Department can give you feedback, via your Tutor, on your progress and the viability of your flourishing in those subjects. The Fifth Form Trials provide further evidence in this regard. Once you have had discussions at February Parents' Evening, you will have a further conversation with your Tutor and give them your choice of four subjects for study in the Lower Sixth. Although not completely binding, these choices represent a serious commitment. We understand that a very few boys will change their minds between now and September, but we do expect you to make a careful decision now, so that we can draw up next year's timetable and agree a way forward which will allow you to flourish.

Similarly, we do not absolutely guarantee at this stage that the particular combination of subjects you choose will be available. We do our very best to accommodate all choices, but it is not always possible to timetable a combination of subjects chosen by very few boys.

You need to have your choices decided by Thursday 27th February 2025. Your Tutor will then enter your choices into the system and we will spend the following few weeks looking into the viability of, and your suitability for, those choices, before confirming them with you or discussing alternatives should that be necessary.

If you, or your parents, have any questions or queries regarding the process, then do please contact me.



Art & Design

AQA

J R Gosden
Head of Art & Design
jgosden@mtsn.org.uk

Introduction

A Level Art & Design offers a wonderful opportunity for those fascinated by the visual world to expand and develop their own work. There is ample opportunity for highly personal production, with an emphasis on self-motivation. The course is far more time-generous than GCSE, and as such affords much greater opportunity to experiment with new ways of working. It is an essential choice for those intending to produce a portfolio ready for a post A Level 'Art' or art-related application, Architecture for example. We also have boys who do not want to continue at university level, but want to show their creativity to prospective employers by taking A Level Art.

Rationale

The fundamental concern for the A Level programme is to instil a base of transferable skills appropriate to our Fine Art leaning, but which are also valuable within any artistic discipline, from fashion and textiles to Architecture, transport/graphic/product/gaming design (and indeed pupils have gone on to study all of these subject areas in recent years). Many students simply take the course to provide a complementing contrast to the typical approach of their other subject areas. Imagination, creativity, lateral thinking and invention are all prized assets of the artist – these skills are developed and encouraged through a demanding programme. Art History is threaded through the course to provide a rich source of reference - this is complemented by a range of study tours.

Contents

A Level Art is delivered as a two-year course, with the exams at the end of the second year. The first year adopts a Foundation Course approach, a series of taught 'workshops' to build your confidence and proficiency that will cover all the main aspects of technique and theory. This is then followed by an independent project in the second year. In all cases, students are required to direct their work in accordance with their personal motivations and enthusiasms - the learning will not be dictated. A range of techniques and processes are available, and it is possible to offer a bespoke scheme for each student. The culminating Summer Show is a chance to exhibit the best of your work to an audience.

Degree Courses

Beyond the Sixth Form, artists have a vast number of options. All of the boys wanting to apply directly to university have been offered places based on their portfolios without having to attend a Foundation Course.

Some boys do follow the Foundation path to help choose their specialty. The number of courses on offer is phenomenal and reflects the growth of an image-conscious world - it is imperative that we have intelligent and talented people leading the way. Architecture provides a genuinely rich blend of the creative, visual, psychological and the mathematical; Walter Gropius, the founder of the influential art school the Bauhaus, described it as the most important discipline of all. Many leading architects consider Art to be the primary subject for potential architects – indeed studying Art and providing a portfolio is universally required for interview.

Graphic Design, Illustration, Product Design, Gaming Design, and Fine Art have all been recent routes boys have selected. We do also have boys go on to read Physics, Geography, Economics, Advertising, and English and History at Oxford. The unique environment of the Life Class provides a forum for serious and sophisticated young artists to engage with a long-established discipline.

The study of Art to this pre-degree level is a lifestyle choice and should be treated beyond the bounds of mere examination criteria.

GCSE Art & Design is a prerequisite for further study at A Level.





Business

Edexcel

M I Beacham
Head of Economics
mbeacham@mtsn.org.uk

A Level Business is a potential new A level being offered at Merchant Taylors' from next year.

It aims to equip students with a critical understanding of organisations, the markets they serve and the strategies they use to compete in the UK and in the global economy. The course involves rigorous analysis of the internal workings and management of businesses, and detailed exploration of business decision making in a dynamic external environment characterised by risk and uncertainty.

Case study research of businesses lies at the heart of the A Level course. Students are taught business theory and how to apply it to issues, problems and opportunities facing real businesses such as Airbus, Apple, BMW, Starbucks, Lego, Microsoft, Netflix and Zara.

A Level Business helps you develop critical thinking skills. They include the skills of analysis and evaluation, which are transferable and can be applied to most situations in everyday life. You will also get a good grounding in a range of decision-making methods and techniques which are widely used in both public and private sector organisations.

Modules that you will cover and assessment details

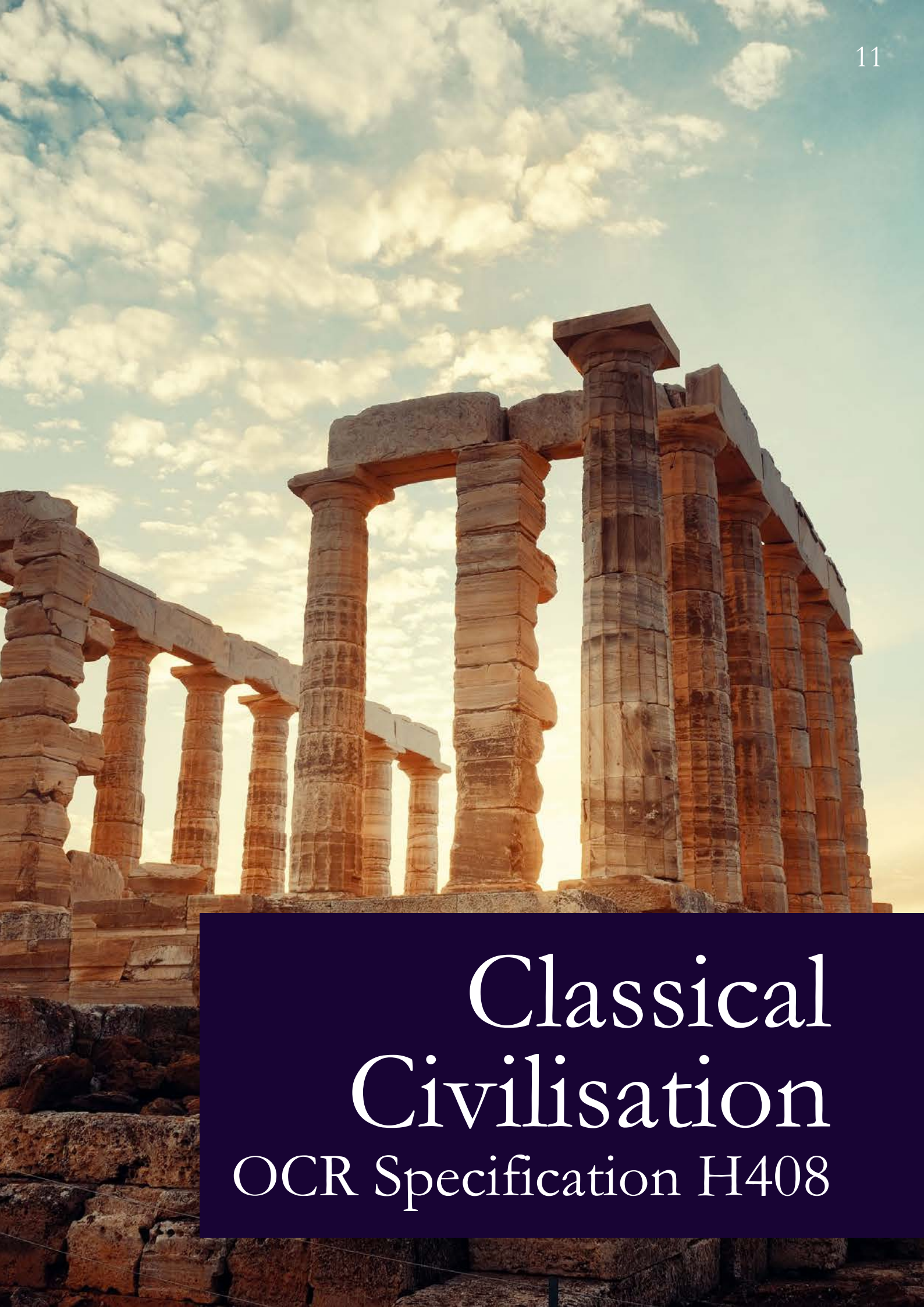
We will be following the Edexcel Business A Level specification. In Lower Sixth, students will cover Theme 1: Marketing and People and Theme 2: Managing Business Activities. These introduce students to core business concepts and applying them to business contexts to develop a broad understanding of how businesses work – for example, exploring marketing and financial planning.

During Upper Sixth students will cover Theme 3: Business Decisions and Strategy and Theme 4: Global Business. Breadth and depth of knowledge and understanding, with applications to a wider range of contexts and more complex business information, are developed here. Taking a more strategic view of business opportunities and issues is critical, with a need to understand how businesses can respond to issues and opportunities in local and global markets. Topics include financial statements; change management; critical path analysis; corporate culture; globalisation and trade liberalisation.

For the A level Business qualification, students will have to sit 3 papers:

- Paper 1: which will include questions drawn from Theme 1 and Theme 4
- Paper 2: which will include questions drawn from Theme 2 and Theme 3
- Paper 3: a synoptic examination paper which will cover all themes.

All three examinations will include data response and extended open-response questions with the addition of Paper 3 having a section where the students will be questioned on the pre-released context in a given industry or market.



Classical Civilisation

OCR Specification H408

M J Bull

Head of Classics

mbull@mtsn.org.uk

Introduction

Classical Civilisation offers the unique opportunity to study a combination of literature, visual/material culture and thought of the Ancient World. As such, no other subject can claim to teach Literature, History, Philosophy, Art, Drama and Religion all in one. Classical Civilisation is the ultimate facilitating subject and is an excellent companion for students wanting breadth of study in the humanities.

The purpose of the course is threefold: To acquire an understanding of selected aspects of Classical Greek and/or Roman Civilisation which have had such a great influence on our own; to develop awareness of the similarities and differences between the Classical world and later times, and thus to gain a sensitivity to past societies whose spiritual, cultural and moral values and priorities contrast with those of the modern western world; and finally, to apply critical and evaluative skills at an appropriate level to evidence of different kinds from the materials studied.

You do not need GCSE Latin, Greek or Classical Civilisation to take this course, but you will need a minimum of a grade 7 in English GCSE and an interest in literature, art, and society.

Contents

Classical Civilisation is a two-year linear course, examined through three papers. All modules are externally assessed. There is no coursework. The three exams are as follows:

UNIT 1 - The World of the Hero (2 hrs 30 mins) – 100 marks

In this component students will study one of either Homer's Iliad or Odyssey and Virgil's Aeneid. Students will develop an increasingly sophisticated level of knowledge and understanding of the epics themselves, the way in which they were composed, and the religious, cultural, and social values and beliefs of its society. Students will have to read just over half of the books of Homer in total and ten out of twelve books of Virgil and be able to answer fact-based questions, analyse authorial style and write thematic essays.

UNIT 2 - Culture and the Arts (1 hr 45 mins) – 75 marks

In this component students will study Greek Art. The module includes a study of visual/material sources produced by the Greeks between the 6th - 4th centuries BC, including free-standing sculpture, architectural sculpture and vase-painting.

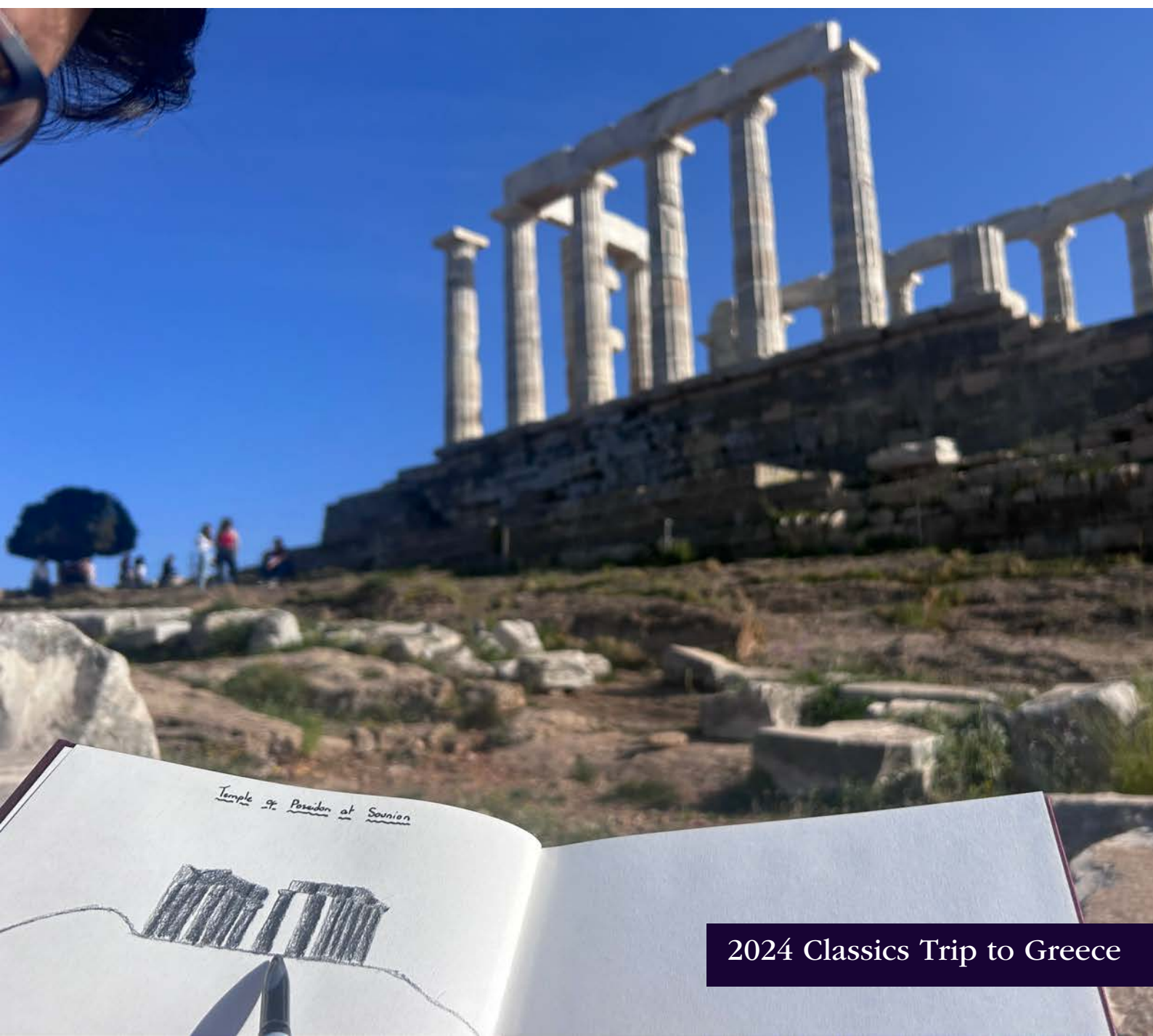
This module will hone students' visual and analytical skills, develop their ability to offer critical analyses and enable them to articulate an informed personal response to the works under consideration. Students will have to answer fact-based questions, compare and contrast works of art and architecture and write thematic essays on the visual materials.

UNIT 3 - Beliefs and Ideas (1 hr 45 mins) - 75 marks

In this component students study Greek Religion. Studying the practicalities of religious ritual, and the role it played in society, alongside the functions and layout of famous temple complexes (Acropolis, Delphi, Olympia), will make this component tangible for learners and help develop their sense of the central role religion played in the life of everyday people. Students will explore the nature of the gods and their relationship with mortals, mystery cults and festivals, and the tensions caused by the rise of philosophical thinking.

Further Education

Classical Civilisation can lead onto a traditional Classics course, as many universities now teach the ancient languages at beginners' level. Pupils also move on to read Ancient History, Classical Civilisation and Philosophy. A grounding in classical literature can be of use to those planning to read English, Art History, Theatre, Medieval History, Philosophy and other arts subjects.



```
mirror object to mirror  
mirror_mod.mirror_object  
operation == "MIRROR_X":  
    mirror_mod.use_x = True  
    mirror_mod.use_y = False  
    mirror_mod.use_z = False  
operation == "MIRROR_Y":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = True  
    mirror_mod.use_z = False  
operation == "MIRROR_Z":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = False  
    mirror_mod.use_z = True
```

```
selection at the end -add  
mirror_ob.select= 1  
mirror_ob.select=1
```

```
context.scene.objects.active  
("Selected" + str(modifier))  
mirror_ob.select = 0
```

```
bpy.context.selected_ob  
data.objects[one.name].se
```

```
print("please select exactly")
```

```
OPERATOR CLASSES
```

```
NODE 01  
NODE 02  
NODE 03  
NODE 04  
NODE 05  
NODE 06
```

```
BLOC  
NODE 01
```

Computer Science AQA

J Feleppa
Head of Computing
jfeleppa@mtsn.org.uk

Computer Science is about logical thought and the application of intelligence. At A Level, students combine practical, creative and theoretical knowledge with the stimulus and satisfaction of making things work. It will suit boys who are considering A Level STEM subjects, while also supporting financial and design pathways. Computer Science is a valued qualification for a wide range of degree courses, particularly Mathematics, Science, Engineering and Economics, all areas in which the ability to solve problems and understand computation is essential. It opens doors to a dynamic industry and equips pupils with the skills to master the modern world.

Learning to write and modify computer programs gives an insight into process and structure; as such it improves understanding of a range of subjects. Computer Science A Level teaches strategies for solving problems such as breaking them into sub-problems; design; thinking at different levels (abstraction); and producing a program to automate a solution. As a fundamentally practical subject with a significant applied component, it is a great platform upon which pupils come to understand how to get things done and how to make things work.

The programming language of instruction is C# although pupils are free to use any language in their project.

The first year of the course

Problem Solving, Programming, Data Representation and practical programming. Topics include:

- Problem solving
- Programming: procedural, object-oriented and functional
- Systems analysis

Computer components, the stored program concept and the internet. Topics include:

- Numbers: binary, hexadecimal, fractions, negative numbers, characters
- Boolean algebra
- Hardware (low level such as CPU, memory and machine code; high level such as I/O and storage)
- Software (system software such as operating systems; application software such as programming languages)
- The internet, HTML and CSS
- The consequences of computing (social and economic effects)

In the first year, pupils start their practical project (which makes up 20% of the final A Level mark). This is completed in the second year. Choice of the project and development tools are up to the pupil. The project follows - and is an instruction in - formal methods of development and documentation.

Sample topics for the project include:

- a stock trading system, developing automated trading algorithms
- a revision guide for the Apple iPhone
- a maze-solving computer game
- an aeroplane simulation demonstrating the principles of flight
- a rugby team selection program (using the 'greedy algorithm')

The second year of the course

- Advanced Problem solving, programming, operating systems, databases and networks.
- Sample topics: Turing machines; syntax diagrams; object-oriented programming (C#), networks.
- Conceptual and philosophical issues in Computer Science, such as complexity, intractability and Artificial Intelligence
- Legal, social and ethical implications of Computing
- Completion of the project building on the work from the first year

Computer Science is highly thought of as an A Level qualification. The specification was developed with universities and employers to meet their requirements. The subject closest to Computer Science is Mathematics since Computing was created largely by mathematicians and much of the content is most readily understood by those with good mathematical skills. There is nothing like trigonometry or calculus in Computer Science, but similar processes of logic and deduction are found throughout, for example when manipulating numbers in different bases (binary and hexadecimal) and Boolean algebra.

One of the important outcomes of completing A Level Computer Science will be the ability to think computationally: to analyse and solve problems, produce algorithms, transfer problems to a computer, specify a computer system, and think logically. The subject involves approaches to knowledge and problems that are not found elsewhere.

It is helpful to have taken GCSE Computer Science as preparation and it is expected that most pupils will have this background. Those who have not, but are nevertheless enthusiastic are encouraged to apply, and we will then discuss suitable preparations for the A Level. Prior interest in computing such as creating web pages or hobby programming is very useful.

Please see Mr. Feleppa for more details.



Design & Technology

Eduqas A Level Design and Technology: Product Design (A602QS)

W Y H Tang
Head of Design, Engineering &
Technology
wtang@mtsn.org.uk

The A Level course is made up of two assessed components: a written examination and an 'Independent Design and Make' project. In addition to assessed work, during the Lower Sixth, boys undertake short design and make challenges. Although they do not count towards the A Level itself, they do offer the boys a chance to really explore Design and Technology without the demands of having to produce a large, assessed portfolio.

Who can take Design and Technology?

The course is particularly suited to boys who have studied GCSE Design & Technology. Minor projects undertaken in the first term give all students the chance to develop abilities in areas that extend their GCSE experience. The projects at A Level are truly independent and boys can choose to solve problems that interest them, making their project choices personal. Many boys also opt to deliver projects that are relevant to their University study, which is a good way to enhance UCAS applications.

Component One (Written examinations)

Boys undertake theory lessons regularly during the two-year course and sit one written examination at the end of Upper Sixth. Boys will be required to apply their knowledge and understanding of a wide range of materials, including modern and smart materials, alongside processes used in commercial design and manufacture. Boys will be required to develop an understanding of contemporary industrial and commercial practices, and to appreciate the risks involved. Boys will also develop good working knowledge of health and safety procedures and relevant legislation relating to the subject. It is also worth noting that at least 15% of the examinations will be made up of applied mathematics questions.

Component Two - Independent Design and Make Projects

In addition to the smaller projects in the Lower Sixth, the NEA (coursework) element in the Upper Sixth is a substantial 'design, make and evaluate' project which will teach boys a range of higher order thinking skills and require them to design and make a fully working prototype. Boys will identify a user centred design possibility from which they will develop a range of potential solutions for and then realise one through practical making activities.

To conclude, A Level Design and Technology prepares boys for degree courses and careers in a wide range of Design and Engineering based disciplines. The use of industry standard Computer Aided Design and Manufacturing methods available at MTS, alongside the real-world application of material manipulation, the application of Mathematics and Science to solve context-based design tasks in an iterative way, gives our boys a head start in the majority of University courses. As well as obvious links with Mathematics and Physics, there are also firm cross-curricular links with subjects such as Computing, Economics, Chemistry and Geography.



Drama & Theatre Studies

AQA A Level Drama and Theatre
Studies Course

C L Clarke
Director of Drama
cclarke@mtsn.org.uk

Drama and Theatre Studies A Level encompasses a range of practical skills and theoretical knowledge of all aspects of the theatre. The course is designed to build theatrical creativity whilst developing performance and design skills alongside an analytical understanding.

The A Level course is made up of three units. Over the two years, these units offer a mix of coursework and exams, both practical and written. Candidates study plays from the point of view of a director, designer, performer and critic. The A Level requires students to work closely with their peers, to be imaginative and creative, intellectual and skilled.

The first unit (40%) involves a study of two stimulating set plays and an analysis of the work of live theatre makers, assessed in the form of a written examination. As part of this unit, students have the opportunity to see a range of productions in the West End and to participate in theatre workshops with professional practitioners and companies.

In the second unit (30%), candidates create a piece of original devised drama influenced by the work and methodologies of one prescribed practitioner, assessed via a devised performance and written notebook.

The third unit (30%) is a practical exploration, interpretation and performance of three extracts, each taken from a different play with the methodology of a prescribed practitioner applied to one of the extracts. A reflective report evaluating the theatrical interpretation accompanies the practical performances.

Further Education

Candidates who take A Level Drama and Theatre Studies go on to study a wide variety of subjects at a range of Russell Group universities, from Law at Bristol University to Geography and History at King's College, London, and French and Spanish at Exeter University. Another read Medicine at Imperial University. The course is highly valued by employers because of the transferable skills students gain: communication, social awareness, empathy, critical thinking and problem solving are areas of particular focus. The A Level is also obviously eminently suitable for those students wishing to study English and Drama at University and beyond. Many OMTs have had very successful careers in the theatre, media and film including Nigel Lindsay and Riz Ahmed.

The background of the page is a complex financial market chart. It features a dark grid with various data series. On the left, there are vertical bars in red and green, resembling a candlestick or bar chart. Overlaid on this are several smooth, flowing lines in blue, green, yellow, and purple, which likely represent moving averages or other technical indicators. The overall aesthetic is that of a professional financial analysis tool.

Economics

Edexcel Economics A

M I Beacham
Head of Economics
mbeacham@mtsn.org.uk

Economics is the branch of knowledge concerned with the production, consumption, and transfer of wealth. It analyses how a society should allocate its scarce resources to maximize its citizens' welfare. For instance:

- Why do some nations grow faster than others?
- What determines the living standards in different nations?
- How has leaving the European Union impacted the UK economy?
- How should the Bank of England Monetary Policy Committee tackle inflation?
- Is free trade between nations always beneficial?
- Will the UK's current deficit and national debt have implications for the future of the UK economy?

Studying Economics improves your ability to reason logically and to analyse data. Graphs and diagrams are frequently used as an aid to reasoning, and you need to be able to perform simple mathematical operations, such as calculating a percentage change. This means that mathematical competence is a considerable advantage. Although students can do well in A Level Economics without it, **an A* in A Level Mathematics is an essential requirement for many Economics degree courses**. If you think you might wish to study Economics at university, we strongly recommend taking A Level Mathematics too.

Economics is a good bridging subject between the arts, the social sciences and pure science. It fits particularly well with Mathematics, Physics, History, Geography and Politics. Linguists also choose it quite often, especially if they have a business career in mind. Graduate economists are in high demand by employers of all sorts.

If you decide to take A Level Economics at Merchant Taylors', you will follow the Edexcel Economics (A) Specification. This will enable you to develop a rigorous and critical understanding of economic theory and to master various analytical tools. Although there is no coursework requirement, the inclusion of economic history topics gives you the opportunity to improve your independent research skills. For instance, the course includes a comparison between the 2008 financial crisis and the Great Depression of the 1930's. In addition, the A Level specification places a great emphasis on the banking sector and provides a thorough understanding of the role of the City of London. It is also beneficial to keep informed about current events in the World Economy by reading around the subject – e.g. reading *The Economist*.

More detailed information will be available at the time of the subject briefing. However, if you would like to find out more, you could ask a current Sixth Former or attend talks organised by the Alfred Marshall Political Economy Society.

A close-up photograph of a hand holding a dark blue, textured book cover. The background is a blurred library with wooden bookshelves. The book cover has a fine, pebbled texture. The hand is positioned at the bottom left, with fingers gripping the edge of the book. A dark purple rectangular box is overlaid at the bottom right, containing the text 'English OCR and AQA' in white serif font.

English

OCR and AQA

M G Hilton-Dennis
Head of English
mhilton-dennis@mtsn.org.uk

The English Department at MTS offers two A Level English courses and it is worth remembering that you can choose **both** as A Level options:

- A Level English Literature (OCR Exam Board)
- A Level English Language (AQA Exam Board)

English Literature

One of the most traditional and sought-after A Levels, English Literature widens immeasurably the scope of literature that you will have studied at GCSE. You will be given an in-depth training in critical analysis and written communication and an unequalled insight into the human psyche – exactly what the modern workplace is looking for in new graduates.

The depth in which you explore your A Level texts is unprecedented and they will stay with you for life. Another richly satisfying aspect of the course is the way that it explores the historical and social contexts behind works of literature, and how critical and creative interpretations of a text have evolved over time.

We start with Shakespeare and an in-depth study of Hamlet, a play which ranks as one of the greatest works of literature of all time. It is arguably his most famous tragedy, and few other texts reach so deep into philosophy and the existentialism of a young man, while at the same time offering a story of revenge and a heightened theatrical experience. The breadth of literature you will cover is impressive. As part of the pre-1800 side of the course, you may study Geoffrey Chaucer's 14th Century human comedy, The Canterbury Tales, alongside Oliver Goldsmith's clever satire on 18th Century manners in She Stoops to Conquer. Alternatively, you might find yourself studying Milton's visionary epic, Paradise Lost, twinned with the blood and revenge of Webster's Jacobean tragedy, The Duchess of Malfi. We then head into post-20th Century texts for coursework, with past choices including the poetry of W.B. Yeats, W.H. Auden, D. H. Lawrence, Philip Larkin, Seamus Heaney and Simon Armitage; prose that covers writers such as Martin Amis, Kazuo Ishiguro, J.M. Coetzee and John le Carré; and plays that might include Peter Shaffer's Amadeus, Laura Wade's Posh, Tom Stoppard's absurdist comedy, Rosencrantz and Guildenstern are Dead, and Jez Butterworth's defiant state-of-the-nation play, Jerusalem. You have a genuine say in what you would like to study for coursework.

On the other side of the course, you will study a whole module devoted to American Literature written between 1880 and 1940. The period spans America's emergence from civil war and the years of formative development as a nation. The seminal texts you get to study are Fitzgerald's The Great Gatsby, an exquisitely written meditation on the destructive effects of The American Dream in the 1920s, and John Steinbeck's finest work, The Grapes of Wrath, an angry polemic on the impact of privatization and unchecked Capitalism on poor migrant farmers in the 1930s. Surrounding these two core novels are a number of satellite texts, written by some of the greats of American Literature: Mark Twain, Henry James, Edith Wharton, William Faulkner, Ernest Hemingway, Richard Wright, Theodore Dreiser and Willa Cather.

Together, these writers form a body of work that encompasses the main discourses that still run through American society today: the tensions between the northern and southern states, racial and gender inequality, wealth and poverty, America's ambivalent relationship with Europe and the forging of its own identity as a nation state.

Allied to the course is a rich cultural programme of theatre visits, academic lectures from some of the top professors in the country and the weekly meeting of the English Literature Society, named after OMT Robert Herrick, the 17th Century metaphysical poet. Here you will be introduced to writers, texts and ideas (some highly controversial in their time) that both support and go far beyond the syllabus. We are also on the look-out for clever and witty writers for *The Dependent*, the termly satirical newspaper published by the English Department. Be sure to check out the new MTS English Reading Companion, which guides you through the most important writers, texts and literary movements of the English Canon, and includes commentary from each member of the department on their specialist areas. You will find copies, accompanied by the recommended texts, in the Sixth Form English Reading Room, a space dedicated to independent study and scholarship.

English Language

English Language is a popular, diverse and interesting course and it doesn't really bear any relation to GCSE at all. English Language seeks to explore many questions: is it possible to think without language? Does our gender influence our language choices? Do the limits of our language dictate the limits of our world? In many ways this is a linguistics course and adopts a scientific approach to studying language – so, if you are technically-minded, or wish to study a modern or classical language, or have an interest in Biology, Psychology or the social sciences, then English Language is an excellent complement to those A Levels. You will learn about language development in children, interrogate the relationship between language and culture and explore the politics of language. The course opens your mind to the range of texts that surround us, from Trump's tweets to Stormzy's lyrics to fascinating discourses on language from theorists like Althusser, Barthes and David Crystal. A good deal of what is done in this course is linguistic analysis of both spoken and written texts, at times chosen by you. You will also produce a piece of original writing coursework and an individual research project on a topic of your choosing. Previous projects have considered subjects as wide-ranging as Apple Technology's advertising ideology, the language of violence in Martin Scorsese's *Goodfellas* and the language of courtship in *Geordie Shore*. An A Level in English Language has enabled previous students to go on to take degree courses in Linguistics, English Literature, Medicine, Classics and Russian; they have welcomed the intellectual rigour the subject affords.

University Application

The English Department at MTS has a proud history of seeing boys in the Sixth Form go on to study English each year at either Oxford or Cambridge or at top Russell Group universities such as York, Durham, Exeter, Warwick, UCL and Bristol. From January of the L6th, boys considering reading English at university are invited to join the English Extension Class. This weekly lesson begins to emulate undergraduate study and goes on to prepare boys for university applications, including the Oxbridge ELAT exam and interview.

English is also a highly desirable A Level for those wishing to read Law, Philosophy, History, PPE, Modern Languages or Classics, and it has proven to have been a possible discriminator in deciding the outcome of some medical applications.

Common Factors

Universities rate both English Literature and English Language as being enabling subjects, those that are credited as excellent preparation for a wide range of degree courses and careers. For either course, essay work will be the principal form of assessment, in which you will be asked to show a detailed critical understanding of the texts. Lessons take place in seminar environments, anticipating those of Higher Education, in which independence of mind and liveliness of expression are key qualities - as is an appetite for reading the best in literature and a wide range of stimulating texts. Simply speak any of the teachers in the English Department if you would like to know more, and feel free to drop by my classroom if you wish to discuss your thoughts further.





Extended Project Qualification

AQA

K K Prashar
EPQ Co-ordinator
kprashar@mtsn.org.uk

The EPQ is a stand-alone qualification that has the 'value' of half an A Level. It is a free-standing project which a student conducts on a topic of their choosing with final submission in the Autumn Term of the Upper Sixth. It runs alongside other subjects and does not have to be based in a subject studied in the Sixth Form. Most projects are influenced by university or career intentions and the EPQ can be an excellent way of showing interest in areas in which boys wish to study or work.

The EPQ comprises six elements:

- 1.Choosing an area of interest
- 2.Drafting a project title
- 3.Drafting aims of the project
- 4.Planning, researching and carrying out the project
- 5.Providing evidence at all stages of the project production
- 6.Delivering a presentation to a 'lay' audience

The project could be in the form of an academic essay, an investigation or might be more practical – perhaps an art exhibition, a film or a practical engineering project.

The outcome is either an essay of approximately 5,000 words or the submission of an 'artefact' with a 1,500-word report. Students complete a Production Log throughout the process with a focus on reflection and self-evaluation. It is assessed internally and moderated externally, with grades being awarded at the end. Boys are supervised by a teacher in school who gives guidance and advice but does not 'teach' the content of the project. The emphasis is on independent research.

Timetable

Boys will be briefed about the project in the Autumn Term of their Lower Sixth year. Initial planning starts in January of the Lower Sixth, with research and writing occupying the spring and summer terms. Pupils will complete the first draft of their written or artefact components towards the end of the summer holiday and will receive feedback. Presentations on the boys' research and the project itself will take place early in the Autumn Term of the Upper Sixth year and final submissions made soon afterwards. Good projects can be discussed in UCAS references and university interviews. Increasing numbers of universities are making alternative (reduced) offers to students who submit successful EPQs.

Boys will opt into the project on a voluntary basis but the School reserves the right to refuse a student entry to the project if we believe that it is not in the best interests of the student to add to their workload.



Geography

AQA

A Murray-Brown
Head of Geography
amurray@mtsn.org.uk

Geography A Level deals with concepts vital to understanding today's world. As a reconstructivist discipline, which aims to solve the world's current and future problems, geography is the only subject that explores the relationship between people and their physical environment. Geography is also an excellent bridge between Art and Science subjects. The transferable nature of geographic skills provides a useful support for both Arts and science subjects and students enjoy sharing geographic knowledge, understanding and skill with their other subjects. We teach the AQA specification, which provides an in-depth study of geographical issues in a modern context and will allow you to appreciate your role as a global citizen whilst developing your understanding of diverse cultures, economies, and natural environments. The teaching in the department is of the highest quality, with a wide range of expertise amongst our staff. Our teaching is facilitated by the Edward Evans Geography Building which includes a host of new technologies and facilities for students, including VR headsets and a Sixth Form study area. An active student-led Senior Geography Society allows students to engage in academic geography beyond the A Level course by attending lectures and giving their own presentations. As a result, there has never been a better time to continue with the subject at A Level.

Each year between ten and fifteen geographers continue with the subject to degree level, along with regular success at Oxbridge. Employers actively seek out Geography graduates because they are analytical, computer literate, systematic and aware of the inter-relationships between different concepts and ideas. Together with the obvious careers that stem directly from the subject itself, many Geography graduates go on to careers in law, accountancy, consultancy, financial services, advertising, and politics. Geography has been defined amongst the key 'facilitating' subjects in a guide compiled by the Russell Group (20 leading UK universities), together with being identified as one of 10 'recession-proof' degree subjects.

The A Level is different in feel from the GCSE. There is a greater expectation for independent work and wider reading, and there is a lot more time to cover the content and exam technique in depth. As such, lessons are more discursive and all students will be expected to involve themselves in class debate. The fieldwork & coursework component (20% of the total mark) also gives students the chance to take ownership of their work, investigating something interesting to them. This fieldwork has been especially helpful for our current UCAS applicants in terms of their confidence in carrying out original research in the same style as that which they would go on to do at university.

Course Content

Component One

Component One is entitled Physical Geography and is broken down into three sections:

- **Water and Carbon Cycles** focuses on the major stores of water and carbon at or near the Earth's surface and the dynamic cyclical relationships associated with them. These are major elements in the natural environment and understanding them is fundamental to many aspects of physical geography.
- **Coastal Systems and Landscapes** focuses on these dynamic environments in which landscapes develop by the interaction of winds, waves, currents and terrestrial and marine sediments together with human intervention in these landscapes.
- **Hazards** focuses on the lithosphere and atmosphere, which intermittently but regularly present hazards to human populations, often in dramatic and sometimes catastrophic fashion. This component comprises 40% of the course.

Component Two

Component Two is entitled Human Geography and is also divided into three sections:

- **Global Systems and Global Governance** 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, together with the attempts at a global level to manage and govern some aspects of human affairs. This section includes a consideration of the threats to and protection of Antarctica.
- **Changing Places** focuses on people's engagement with places, their experiences of them and the qualities they ascribe to them, which are of fundamental importance in their lives. As part of this section, the developing character of a location close to home and a contrasting distant place is considered.
- **Resource Security** focuses on the large-scale exploitation of unevenly distributed natural resources, which is one of the defining features of the present era. You will explore how supply and demand for water, energy, and minerals leads to conflict, wealth, and issues of sustainability at varying scales. This component also comprises 40% of the course.

Component Three

Component Three is an assessed geographical investigation of 3,000 to 4,000 words in relation to processes in both physical and human geography. The independent investigation, based on a hypothesis, incorporates evidence from field investigations and academic research. Students are required to analyse quantitative and qualitative data in order to reach a statistically significant conclusion. This unit will be an excellent way to develop the research skills necessary for your undergraduate studies at university and comprises 20% of the course. This component takes place in lessons over about one term in total with one of your teachers and requires a mature approach to be completed effectively.

Fieldwork & Expeditions

There is a compulsory fieldwork course during the Lower Sixth, the cost for which is approximately £400. This fieldwork directly supports the course work of Component 3. Our current destinations include a day trip to the cultural hub of Shoreditch to investigate changing urban place, and a two-night residential to Swanage Bay to investigate coastal landforms. We will also be offering an optional expedition, designed to inspire geographical interest and aid understanding of key elements of the course.

Please come and see me if you would like a copy of the course outline, or if you have any queries about Geography A Level.



Geography Fieldwork on the River Chess



History
OCR

M W S Hale
Head of History
mhale@mtsn.org.uk

Why study History beyond GCSE?

History is an unashamedly academic subject, which also lends itself to students of a broad ability range. It is accessible through the intrigue of the historical periods studied but challenging in the skills required to analyse and evaluate concepts. It is this combination which has led Cambridge University to declare that they see History as one of the four ideal A Level subjects they look for in a humanities applicant. History graduates have been successful not only in conventional occupations, such as teaching and journalism, but also in some which might seem more unlikely, such as business, finance, and law. History in the Sixth Form introduces its students to transferable skills that make them well-equipped to pursue a multiplicity of careers and to do so with great success.

What is A Level History?

A Level History offers opportunities to explore a range of periods and regions in the past, emphasising breadth as well as depth of teaching and learning. The syllabus encourages historical debate and discussion. Students are rewarded for offering informed, independent views, which result from genuine engagement with the study of History. A Level History is also seen to be excellent preparation for university by the universities.

What is the A Level course structure?

We have chosen a syllabus which we feel will excite and engage Merchant Taylors' students. Students will be able to move away from the well-trodden path of twentieth century Europe and embrace a broader range of periods. The A Level course is broken up into three papers (sat at the end of the Upper Sixth) and a Topic based essay.

British period study and enquiry - England 1199-1272

Students will discover the history of Britain from the end of Henry II's reign through to the accession of Edward I. There will be a particular emphasis on the reigns of Richard the Lionheart, John, and Henry III. This paper explores the role of kingship and the development of parliament, in an exciting period of both conflict and cooperation. A medieval monarch was required to be both a warrior and judge; some got it horribly wrong.

Thematic study and historical interpretations - The Challenge of German Nationalism 1789-1919

Students will explore the reasons for changes in the nature of German nationalism and the consequences within Germany. Major themes and topics include: the 1848/1849 Revolutions, Nationalism and Unification 1867–1871, Wilhelmine Germany and the growth of Nationalism 1884–1914. By the end of the course, students will have studied a hundred years of German history and will engage with recent historiographical treatment and controversies, many of which persist and continue to animate historical research to this day.

Non-British period study - The Crusades and the crusader states 1095-1192

Students will use primary and secondary sources to develop an in depth understanding of the first three Crusades: a truly exciting and relevant period of medieval History.

Topic based essay

The Topic based essay is an extended essay of 3500 - 4000 words, based on a research investigation by the candidate. It enables students to pursue a topic which engages their interests and imagination.





Latin & Greek

OCR

M J Bull

Head of Classics

mbull@mtsn.org.uk

Outline

Latin A Level and Greek A level are two separate options. The format of both is the same, so they are described here together. The A Levels in Latin and Greek, similar to the GCSE, are divided in two: half of the qualification is language, the other half is literature. If you have done both Latin and Greek at GCSE, you can choose both for A Level.

Course Content

Lower Sixth

In both subjects, the Lower Sixth language course will be spent consolidating and extending your knowledge of GCSE grammar. There is not much extra content, but lots of exploration of exceptions to the rules, and more detailed explanations of some features. Some translation of English into Latin/Greek will be done, and plenty of translation of Latin/Greek into English.

While the other half of the course is devoted to Literature, we have the opportunity to read more widely than the prescribed A Level texts. The first term of Lower Sixth will be spent reading a variety of authors, both prose and verse. These texts are usually decided between teacher and students; In Latin, these may include Catullus, Horace, and Virgil in verse, and Cicero, Suetonius, and Petronius in prose. In Greek, these may include Homer, Sophocles, and Aristophanes in verse, and Plato, Thucydides, and Xenophon in prose. This term will provide an overview of Classical literature and genre, and an excellent preparation for the study of A Level texts.

For the prescribed literature, you will read a prose and verse text in Lower Sixth, and a prose and verse text in Upper Sixth. There is a choice of A Level texts, and in some cases a choice between a longer text with one author, or two shorter texts of two authors.

In Latin, the prose authors offered for examination in 2026 are Cicero, Tacitus, and Pliny, and the verse authors are Virgil, Juvenal, and Ovid.

In Greek, the prose authors offered for examination in 2026 are Herodotus, Plato, and Plutarch, and the verse authors are Homer, Euripides, and Aristophanes.

Upper Sixth

The majority of the Upper Sixth year is devoted to reading texts and researching and discussing the wider background. Consolidation of the language continues during this year too.

Who can do it?

Each A Level is open to those who have studied the relevant GCSE. The GCSEs in Latin and Greek are tough, and therefore good preparation for A Level. Those who enjoy the GCSE course invariably enjoy A Level, as the skills required and the nature of the courses are similar, but more advanced, and with much more time to discuss and investigate.

Beyond the classroom

An overseas trip, usually to Greece or Italy, is offered in most years. In addition, students have the opportunity to see plays in Oxford, Cambridge, and London, some of which are performed in Ancient Greek. The department has an enviable library of Classics books, which will enhance independent study at this level, and lectures by distinguished academics add breadth to the A Level course and convey something of what is involved in studying Classics at undergraduate level.

Beyond A Level

Some students choose to study Classics at university, but by no means all: many will go on to read other humanities, or sciences. Both Latin and Greek are regarded as highly academic subjects and continue to be recognised by Admissions Tutors as beneficial to university applications. They are valued because of both the intellectual concentration and application that is demanded in translation and reading, but also the empathetic response that is required in literary analysis. Latin and Greek are not necessary for many careers, but they are useful for any.

GEOMETRY.

CIRCLE.

Fig. 62.

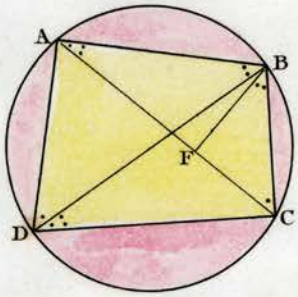


Fig. 63.

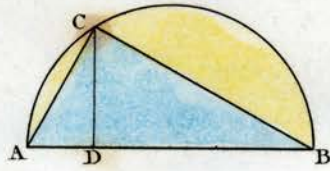


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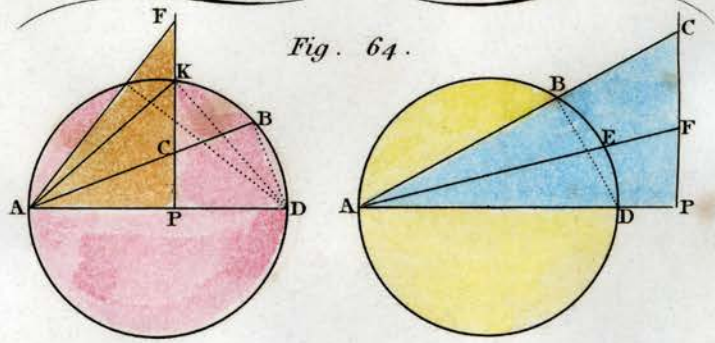


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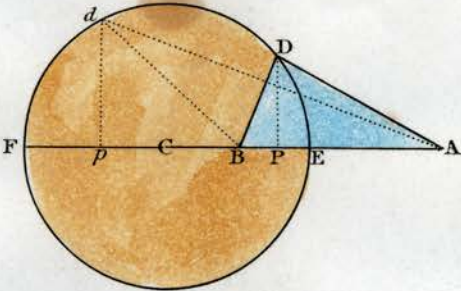


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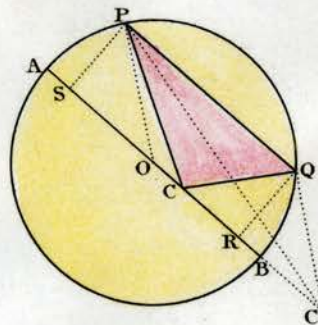


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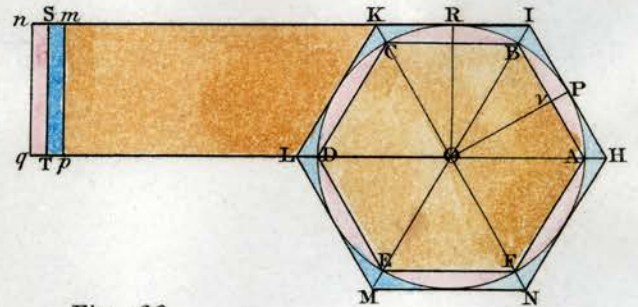


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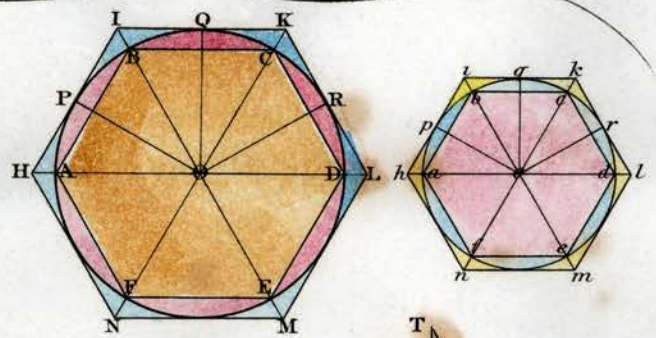


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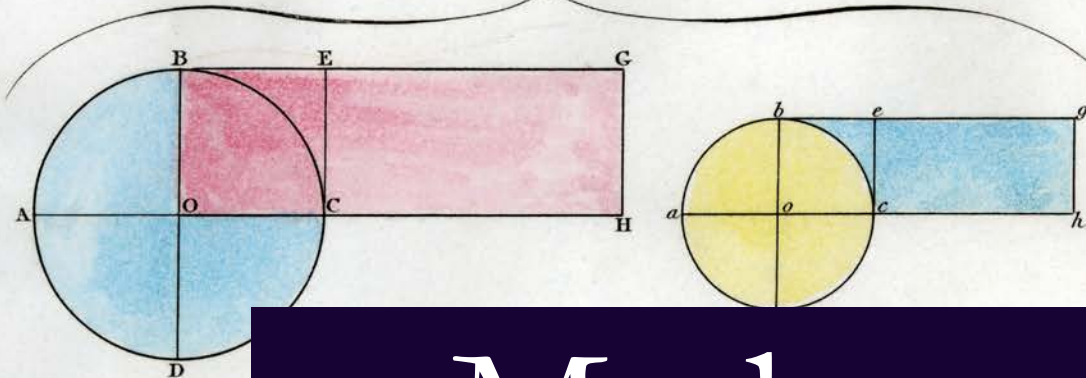


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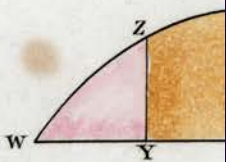
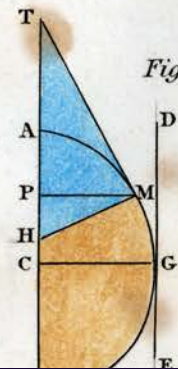


Fig. 71.



Mathematics
OCR MEI

A S Miller
Head of Mathematics
amiller@mtsn.org.uk

Mathematics is the most popular subject for A Level study at Merchant Taylors'. It can be, and is, studied successfully in combination with almost anything else. A good grade in A Level Mathematics is regarded as a desirable qualification by all higher education establishments.

Mathematics now follows the new linear A Level syllabus which started in September 2017. The course is divided into two: Pure and Applied Mathematics, with the emphasis on Pure. Pure Mathematics is in many ways a continuation of the Middle School courses and includes algebra, trigonometry, numerical methods and calculus. Applied Mathematics is itself divided into two parts, Statistics and Mechanics.

Aptitude for the course, as well as a genuine interest, is obviously very important in Mathematics. The extent to which one can compensate by sheer effort for difficulties in understanding is limited.

Those who have not studied any FSMQ syllabus must be cautious in opting for Mathematics at A Level; **anyone scoring below a grade of 9 at IGCSE is likely to find the course extremely difficult.**

Those wishing to consider Further Mathematics needs to read on.

The Further Mathematics course includes further modules in Pure, Statistics, Mechanics and Numerical Methods.

In order to study Further Mathematics at Merchant Taylors in the sixth form, you must be in a set studying the FSMQ course. Given the accelerated manner that A Level Mathematics is studied in the first term of the Lower Sixth, pupils cannot choose to study Further Maths A Level if they are not studying FSMQ in the Fifth form.

For Mathematics, Engineering, Economics, Natural Sciences and other Mathematics based courses showing that you are capable of doing more advanced Mathematics (provided one is good enough to do this) is regarded as being beneficial – universities like to see evidence of extended work being done. The top universities will expect candidates to have done this coming from a school such as Merchant Taylors'.

It is important that boys do some early research into potential university courses to ensure that their choice of Maths A Level suits their applications.

If you are seriously interested in studying Mathematics and Further Mathematics, please select the 'Mathematics & Further Mathematics' option - though this will be reviewed in the light of IGCSE and FSMQ results and again after the first term of Lower Sixth.



Modern Languages

French, German, Spanish
Eduqas A Level

R P Bailey
Head of Modern Languages
rbailey@mtsn.org.uk

Why study Modern Languages beyond IGCSE?

As a successful IGCSE linguist you will already have experienced, at some level, the real pleasure and buzz in being able to communicate in a foreign language. Speaking and understanding a language gives you a unique set of tools that can be applied to many fields of employment and future learning. Anyone with an interest in communication, film, literature, economics, politics, history and sciences will find the Sixth Form courses engaging, and you can be certain that by the end of the Sixth Form, you will have reached a degree of independent fluency which will surprise you. That is richly satisfying in its own right, but more than that, high-level modern linguists are currently among the most employable of all graduates and Modern Languages have one of the most favourable applicant to places ratios at Russell Group universities. Furthermore, those students likely to pursue scientific careers often value (as do their eventual employers) the balance and different perspective offered by a language qualification. While one modern language is often chosen as a complement to other subjects, able linguists should strongly consider the value of taking two languages.

What is the A Level course structure?

The course will be taught by two teachers who will develop the main language skills (speaking, listening, reading, writing and translating) by means of authentic materials and media, covering topic areas such as cultural identity and diversity relevant to the language studied, recent historical and political events, artistic heritage and the contemporary cultural scene, traditions and festivals. Pupils also study a set film and a set text, one in L6th and one in U6th. In addition, we have the benefit of native speaker assistants with whom you will work in small groups to get individualised help and conversation practice.

Examination Structure

Paper 1: *Speaking (17 minutes + 5 minutes preparation)*

Candidates discuss a short article related to the culture or country and matters arising from it. In the second part of this paper, candidates discuss a prepared topic of their choice related to where the target language is spoken. This is an opportunity for pupils to research a particular area of personal interest – it could be historical, political, cultural, sporting or a contemporary issue but it must be relevant to the culture/language studied.

Paper 2: *Reading, Listening and Translation*

Candidates answer comprehension questions in both the target language and in English in response to audio and written material. They are also required to translate a passage from the target language into English and vice versa. Unlike at GCSE, candidates have access to their own sound files but have to manage their time accordingly.

Paper 3: *Writing response to film and work of literature*

In this paper, candidates write two short essays (300 words approx.) in the target language in response to a film and a work of literature they have studied in class. The list of films and literary works includes classics and more contemporary works. To get an idea, please see the A Level specifications on the Eduqas website for language-specific films and texts.

<https://www.eduqas.co.uk/qualifications/>

Language classes in the Sixth Form are fun. An active engagement with and enjoyment of your language is a necessity, but working with like-minded pupils, teachers and language assistants, provides rapid progress and much satisfaction.

In class, the 'target language' is used predominantly and confidence in speaking is reinforced by a compulsory weekly session in small groups with one of the language assistants. Discussion in a foreign language is also practised in class and on occasion in debating competitions with other schools.

We place a lot of emphasis on independent research, reading and exploration. This begins in January of the Lower Sixth with a regular 'reading and listening booklet' in which we expect students to record evidence of a piece of reading or listening every week.

There is an active Sixth Form Language Society, Panglossia, which invites eminent university academics to talk about all the countries we study, and to which you're warmly welcome.

Progress can and should be reinforced by spending time in a country where the language being studied is spoken on study trips we organise, individual exchanges, work experience or simply on holiday. Within the department we have several contacts for potential independent exchanges and we would strongly encourage Sixth Formers to consider this opportunity.



Music

OCR

S J Couldridge

Director of Music

scouldridge@mtsn.org.uk

Introduction

A Level Music provides a contemporary, accessible and creative education in Music with an integrated approach to the three main elements of Performing, Composing and Appraising. The course is designed to encourage creativity, and to broaden students' musical horizons and understanding with Areas of Study (below) that inspire and challenge:

1. Instrumental music of Haydn, Mozart and Beethoven	[compulsory - studied in L6]
2. Popular song: Blues, jazz, swing and big band	[compulsory - studied in L6]
3. Instrumental jazz from 1910 to the present day	[optional - studied in U6]
4. Religious music of the Baroque Period	[optional - studied in U6]
5. Programme music 1820-1910	[optional - studied in U6]
6. Innovations in music from 1900 to the present day	[optional - studied in U6]

With an emphasis on musicality and practical music making, it is a course suited to those who are already good instrumentalists or singers who have achieved a Merit or Distinction at ABRSM Grade 6 or above, who can read music fluently, and who have a genuine interest in the history, analysis and techniques of music. A pass in ABRSM Grade 5 Theory is a pre-requisite for studying A Level Music.

The Course

A Level Music comprises a coursework element (Composing), a Recital (Performing), and a written paper at the end of the second year (Listening and Appraising). In the first year there is ample opportunity to explore performance and composition in detail, with scope for specialising in either performance or composition according to each student's own particular strengths and interests.

Performing

For Performing pupils submit an audio-visual recording of a recital that lasts between 6 and 9 minutes, or, if Performing is selected as the specialist component, between 12 and 15 minutes. The recital will be recorded (filmed) between March and May during the second year of the course. A standard recital will include a programme of at least two contrasting pieces, and the optional specialist component should focus on an idiomatic performance technique.

Standard performing:	75 marks	25% of the total A Level
Specialism in performing:	105 marks	35% of the total A Level

Composing

For Composing pupils submit two compositions that are completed during the course and submitted in the second year. If Composing is selected as the specialist component, an additional set of three exercises is also submitted. Of the two main compositions, one is in response to a brief set by the exam board at the start of the second year, whilst the other is a self-devised work.

Standard composing:	75 marks	25% of the total A Level
Specialism in composing:	105 marks	35% of the total A Level

Together the Performing and Composing components account for 60% of the total A Level overall.

Appraising

Your listening, appraising, and analytical skills are assessed in a written paper at the end of the course. The Areas of Study offer the opportunity to explore the musical context, the musical language, and the interdependence of the musical elements in a range of musical styles and genres. You will study four in total.

The first two Areas of Study are compulsory and include prescribed works on which you will be examined alongside many other pieces of music.

2025-2027 prescribed works:

AOS1:	Instrumental music of Haydn, Mozart and Beethoven Beethoven: Piano Sonata No. 32 in C minor, Op. 111 (1821-22)
AOS2:	Popular song – blues, jazz, swing and big band Ian Shaw: The Theory of Joy (2015): (i) 'Small Day Tomorrow' (3'15"), (ii) 'Where Are We Now?', (iii) 'How Do You Keep The Music Playing?', (iv) 'You've Got To Pick A Pocket Or Two'

A further two of the remaining four Areas of Study will also be studied during the course and will provide the basis for assessment in the form of essays in the written paper. There is a significant amount of listening and reading to complete this part of the course, and you should be prepared to spend time reading and researching the topics covered in these Areas of Study:

AOS3:	Developments in instrumental jazz, 1910 to the present day
AOS4:	Religious music of the Baroque period
AOS5:	Programme music, 1820-1910
AOS6:	Innovations in music, 1900 to the present day

Written Paper: 120 marks 40% of the total A Level 2 ½ Hours

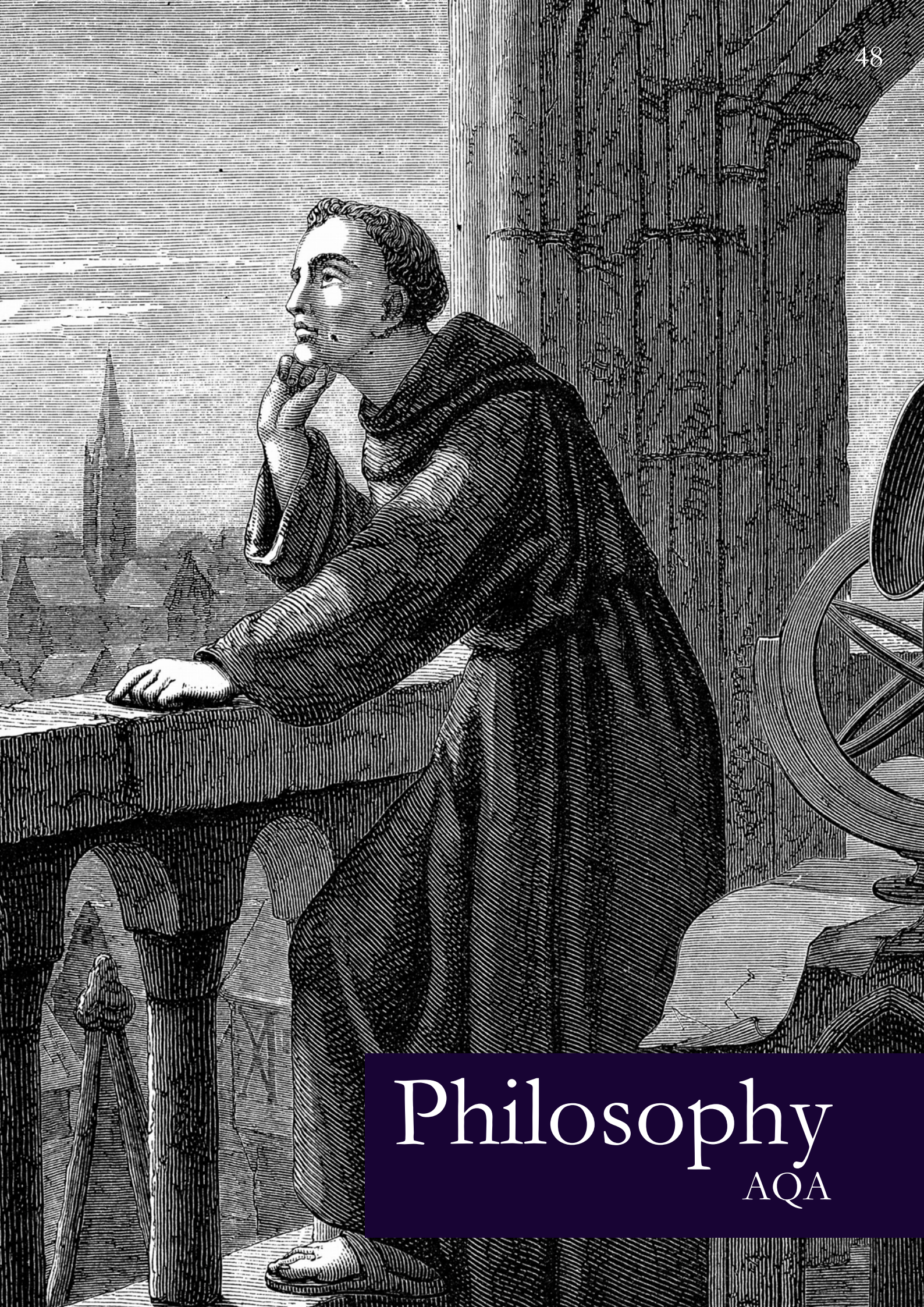
Beyond the Sixth Form

A Level Music is a must for anyone intending to study Music seriously, either at a music college or university, but it is not a subject that is limited to those intending to pursue a career in music. Opting to study Music at A Level can demonstrate a commendably broad and enterprising mind when it comes to university application and provides a welcome opportunity for personal expression and creativity, as well as deepening the understanding and enjoyment of a lifelong interest. It is true that in recent years many A Level Music students have gone on to read Music at Oxford, Cambridge, and King's College London, though there are others who have chosen to use their musically developed skills as independent and creative thinkers, with abilities to also work as part of a team in high pressure situations, in their studies for Engineering, History, Law, Languages, and Zoology degrees.

Please note that Grade 5 theory is generally required to study A Level Music, however if you do not have or will not have this qualification and wish to discuss your suitability for A Level Music please speak to Mr Couldridge for further advice.



The Triennial Service of Remembrance at St. Paul's Cathedral, 2024



Philosophy

AQA

G C Solomons
Head of Religious Studies and
Philosophy
gsolomons@mtsn.org.uk

Philosophy underpins everything we think we know, strive to know, and do. Any and all subjects that you may choose to study at A Level started out as a field of philosophical investigation. By definition, philosophy is a 'love of wisdom', and that is precisely what students gain by studying this course. Quite simply, "You cannot do without philosophy; for everything has its hidden meaning, which we must know" (Maxim Gorky).

An increasingly popular course nationally, A Level Philosophy covers four key ideas of Western philosophy in great depth. The course requires no specific former knowledge and can be studied by anyone with an enquiring and critical mind. It particularly appeals to students who have an interest in challenging conceptual thought, have a capacity for analytical thinking, and enjoy a good debate. While the nature of A Level Philosophy assessments entails a great degree of analytic rigour and precision, it also provides the opportunity to delve deeper into some of humanity's most basic assumptions, including whether we are real, and whether we can know anything at all. Philosophy students therefore have an exceptionally open mind and well-developed patience when grappling with seemingly impossible problems.

This course has four equally weighted units, all of which will be examined at the end of a two-year course based upon AQA specification 7172. These units are assessed during two three-hour unseen exams whereby students answer both short and longer (essay-style) questions.

Unit One: Epistemology

Epistemology is the study of theories of knowledge. This unit covers the definition of knowledge, what we can know, and how we acquire knowledge and concepts. It even challenges everything you thought you knew by considering the concept of radical philosophical scepticism – perhaps this world is that of a simulation, perhaps we are simply brains in vats, and perhaps we cannot ever really claim to know anything at all. Think the Truman Show, The Matrix, Inception...

Unit Two: Moral Philosophy

Moral philosophy is often referred to as ethics. Put simply, it's about right and wrong, good and bad. This unit covers ethical theories, applications of these theories, and the meaning of moral language. Questions posed and views examined help students better understand what it means to be a good person, or to do good things. In fact, students even question whether there is any such thing as morality at all, and if not, what the consequences of this may be.

Unit Three: Metaphysics of God

This unit covers the Abrahamic concept of God as typically conceived by the three main monotheistic religions. It considers whether this concept of a God is logical or indeed possible, as well as arguments for and against the existence of God. Can we even talk about such a God if He does exist, and what are the consequences of our inability to comprehend a God with such characteristics?

Unit Four: Metaphysics of Mind

This Metaphysics of Mind unit considers key questions in the field of Philosophy of Mind. This involves examining what minds and mental states are, as well as whether they can be separated from the body. This unit covers various theories which argue that the mind is either a physical or a non-physical entity, with resultant issues around what makes us human and what it means to experience being human.

How would this course benefit you?

Philosophy is highly regarded by top universities because it develops a range of skills, quite unlike any other A Level course. Russell Group universities value the subject highly, as it provides good general preparation for university study.

People are often surprised to hear that many students who are looking to embark on a career in medicine, science or law find a background in philosophy an invaluable asset. Yet, this is hardly surprising given the nature of the topics at hand. After all, how can you be a good doctor if you have not grappled with the value of human life, and how can you be a good lawyer if you have not questioned the source of morality and the value of law? In fact, the vast majority of Nobel Prize winning scientists have studied philosophy or other related humanities along the way. Put simply, a philosophical mind makes for a more critical, diverse and ultimately successful scientific mind. It's no surprise, therefore, that Philosophy is a popular joint-honours degree subject alongside Physics or Mathematics, as well as a popular undergraduate degree choice for those wishing to pursue law via a law conversion.

Outside the world of work, philosophy provides a unique opportunity to think through the biggest of questions, including whether God exists, whether there is such a thing as morality, and what the meaning of life itself is (or indeed, if there is one at all). No other subject wrestles with such fundamental questions and gets to the very core of what it is to be human; to think. The Ancient Greek philosopher Socrates famously said "The unexamined life is not worth living"; if you are inclined to agree, then this is the course for you.



Politics

Edexcel

J P Martin
Head of Politics

jmartin@mtsn.org.uk

Why study A Level Politics?

Politics is both unbelievably important and endlessly fascinating! Why is Keir Starmer's Labour party, fresh off an electoral landslide, facing a barrage of rebellion from within its own ranks? How is it possible that we're observing unprecedented levels of collaboration within the European Union, achieving a united stance on sanctions towards Russia, whilst voters on the continent are increasingly embracing far right euroscepticism? Why, in a country of fifty states, do four decide the outcome of the American presidential election? Since understanding the views of others has never been easier, why are political parties more polarised and insular than ever before?

In such a world, where political reality is seemingly too often devoid of logic, it is crucial to know the processes by which decisions are made, where power truly lies, and the extent to which citizens are participants in politics. By studying the subject for A Level, you will understand the theory of how government is supposed to work, as well as the theory behind how we get the governments we deserve. The subject can take you from high debate on principle to appreciating the absurdity of the Westminster bubble within the same lesson, with endless scope for debate.

Where will it lead?

Politics at A Level is a great gateway subject for dozens of different fields at university, as well as being ideal preparation for subjects such as Politics, International Relations, Economics, History and Politics, PPE and HSPS. The skills you obtain will be highly valued in various career paths beyond university, including law, journalism and public policy.

What will I learn?

- **UK Politics:** Understanding the dynamics of democracy and participation, the influence of pressure groups, as well as factors that influence voters in elections, such as the media.
- **UK Government:** Delving into the structure and functions of the UK government, including the roles of Parliament, the Prime Minister and the Judiciary.
- **Political Ideologies:** Exploring the core components of political philosophies like Liberalism, Conservatism, Socialism and Feminism.
- **Comparative US Politics:** Comparing the US political system with the UK, focusing on the Constitution, the presidency, civil rights and US elections.

Am I suited to the subject?

You likely already know whether you possess a passion for Politics. If you are prepared to stay up to date with political developments as they happen, if you are comfortable analysing material to identify patterns and trends, and you are excited at the prospect of evaluating competing arguments, then this is the subject for you. If you love to look at theory, philosophy and practical information, then you are in the right place.

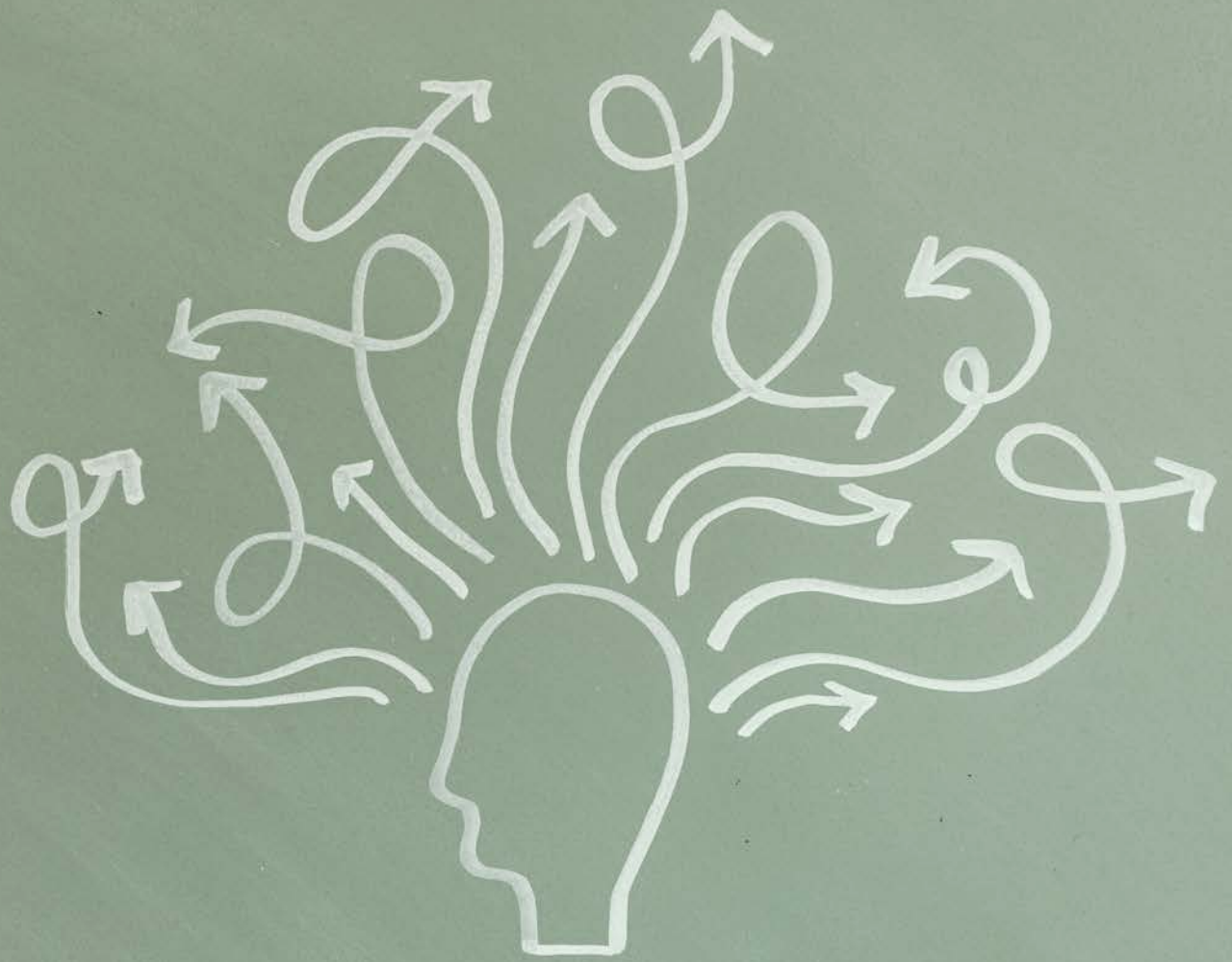
Extra-curricular involvement

- Alfred Marshall Society talks and visiting speakers (former speakers at MTS include Gordon Brown, Sir Nick Clegg, David Gauke MP, Lord Stirrup, Richard Harrington MP and John Randall)
- An annual trip to Parliament, the UK Supreme Court and/or City Hall
- Trips abroad (recent trips include the USA and France)
- Model United Nations conferences (including MTS MUN)
- Online lectures and visits to student conferences
- An annual visit to the London Student Politics Conference (previous speakers include Wes Streeting, Nigel Farage and Jeremy Corbyn)
- The chance to lead the Hansard Society, a junior politics group for the lower school

A Level specification link:

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





Psychology

AQA

K E Chakraborty
Head of Psychology

kchakraborty@mtsn.org.uk

What is Psychology A Level?

Psychology is the scientific study of mind and behaviour. It is a fascinating and rigorous A level which deals with questions such as: What makes us remember? How do we learn? Following brain damage how well can a person perform? Why do people obey? One of the ways it is a truly unique and valuable subject is that you will learn a great deal about the brain, including its regions and functions, and about predominant mental illnesses in society such as depression and anxiety.

Course outline

Unit One: Introductory Topics in Psychology

- Social Influence: why people conform, why people obey and the effects of these processes on social change.
- Memory: including memory models and eyewitness testimony.
- Attachment: including early social development, explanations of attachment and cultural variations of child-rearing.
- Psychopathology: different approaches to treating depression, phobias and obsessive-compulsive disorder.

Unit 2: Psychology in Context

- Approaches in Psychology: different ways of understanding behaviour, including Learning, Cognitive, Biological, Psychodynamic and Humanistic approaches.
- Biopsychology: how understanding human biology helps to understand behaviour.
- Research Methods: a comprehensive focus on how psychologists construct studies, gather data and analyse results.

Unit 3: Issues and Options in Psychology

- Issues and Debates in Psychology: the kinds of debates that psychologists have with each other including, Gender, Free Will and Determinism, Nature and Nurture, Holism and Reductionism, Idiographic and Nomothetic investigating and Ethics.
- Cognition and Development: focuses on infant intellectual stages of development and how this can help us to understand autism.

- Schizophrenia: focuses on the condition, its causes and how it is treated.
- Aggression: why human beings are aggressive, including biological and social reasons.

Assessment

Unit	Maximum Marks	Length of Paper
Paper 1: Introductory Topics in Psychology	96	Two hours
Paper 2: Psychology in Context	96	Two hours
Paper 3: Issues and Options in Psychology	96	Two hours

Skills and Interests Required

Psychology involves a great deal of knowledge acquisition. Be prepared to learn and revise key terms. Students are expected to be good at writing and willing to keep their notes organised. Focus is placed upon analysis, evaluation, interpretation, ethical issues and critical appreciation of psychological methodologies.

A strong performance at GCSE in English and Science is highly recommended. Several parts of the course look in depth at the brain, nervous system and evolution; a strong interest in biology is essential.

Progression

Psychology provides opportunities for those looking to progress to degree level in a number of fields, and can be studied as Experimental Psychology at Oxford, and as part of the Politics, Psychology and Sociology at Cambridge, as well as all of the Russell Group universities. As Psychology is a social science it has uses across many fields and is widely used in the workplace. It allows a development of core skills, building arguments, reading and understanding the work of others. All these skills are applicable in employment and at university across courses. Psychology is a particularly useful subject for those wishing to go into clinical work like health and social care services, medicine, research, teaching and human resources. It is essential for Clinical Psychology, Educational Psychology and Counseling-related fields. Other specialist fields include Sports and Criminal Psychology.



Science

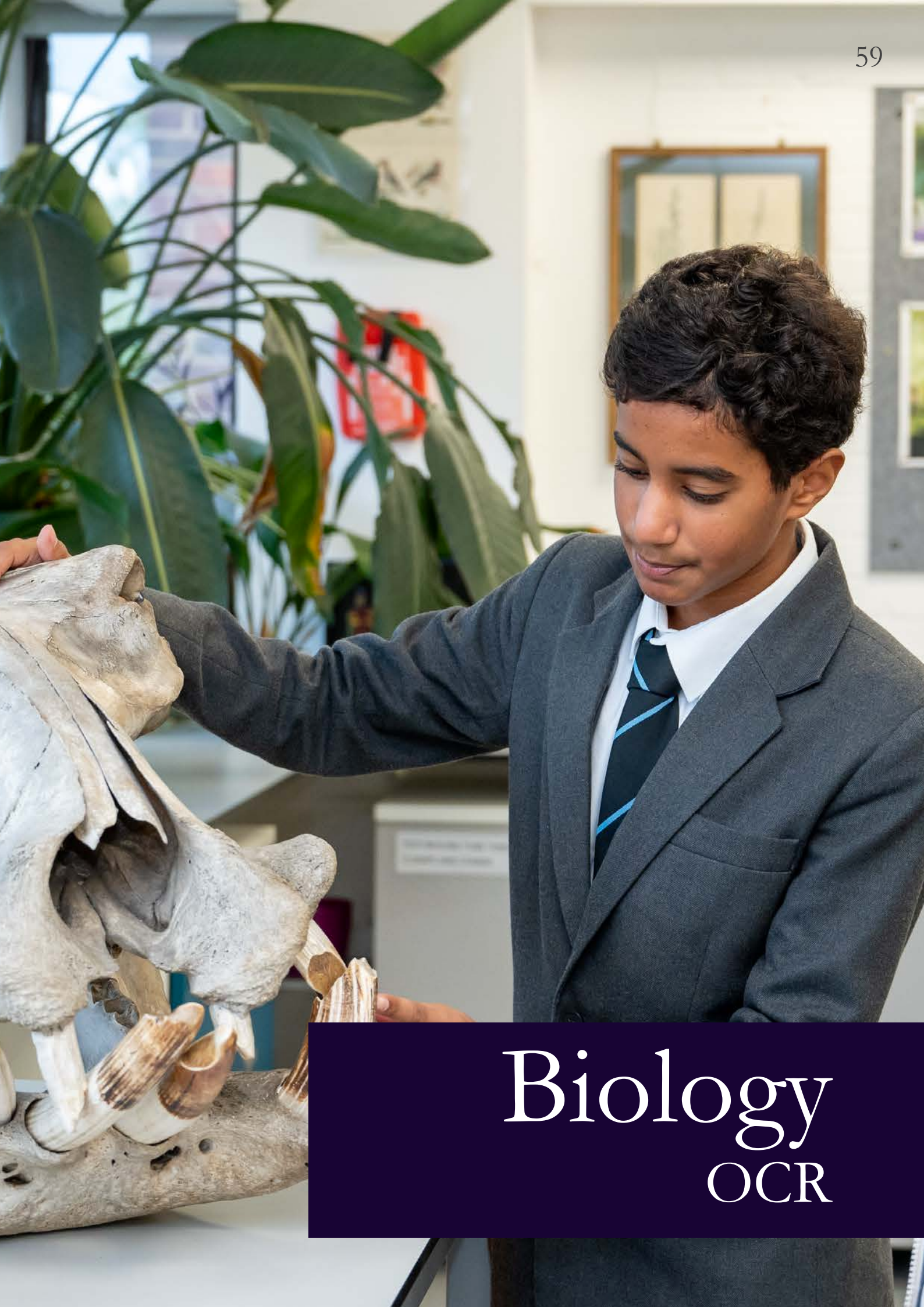
F A Rashid
Head of Science
frashid@mtsn.org.uk

The principal reason for choosing any A Level subject is that you have genuine passion and curiosity in one or more of the sciences. You will therefore enjoy studying it in the future. This will most probably be based on your experience at GCSE having studied Triple Science.

The Science Department offers courses in all three Sciences. **Boys wishing to study a science subject in the Sixth Form should expect to obtain an 8 or 9 grade in the appropriate GCSE subject.** In exceptional circumstances, for Double Award Science candidates, a double 9 grade will be essential, with a strong UMS in the chosen subject. This would qualify you to study Biology or Physics A Level if you have a top grade in Mathematics; however, the final decision remains with the Head of Department. You may wish to discuss your suitability for a subject with the Head of Department.

The combination of subjects that you choose will depend to some extent on any potential career that you have in mind. For example, Engineers must study Maths and Physics, whilst Medics and Dentists will study Chemistry and Biology at A Level. You can certainly consider a 'contrasting' subject for Medicine as this can be beneficial. A Levels in Science subjects are obviously important for careers in Applied Science, but they are also appropriate for a wide variety of other degree courses, many of which include elements of Management Studies, Economics and Law as part of their programme.

Many University Departments offer a year abroad as part of a Science degree and you may wish to take a Modern Language in concert with the Science subjects or you might consider an Arts or Humanities subject. The Science Department has a good record of entry to excellent universities in a number of varied and exciting courses.



Biology

OCR

S N Stuteley
Head of Biology
sstuteley@mtsn.org.uk

The OCR Biology A specification builds on concepts and skills that have been developed in the IGCSE Biology course. It presents Biology as an exciting, relevant and challenging practical subject. The specification emphasizes the way in which scientists work and the contribution of Biology to modern society.

Lower Sixth

Students will complete five modules in the first year of the course:

- Module 1 – Development of practical skills in biology
- Module 2 – Foundations in biology
- Module 3 – Exchange and transport
- Module 4 – Biodiversity, evolution and disease
- Module 6 – Ecosystems

Upper Sixth

Students will complete an additional two modules in the second year of the course:

- Module 5 – Communication, homeostasis and energy
- Module 6 – Genetics and evolution

There are three written external examinations at the end of the second year:

Paper	Paper - Component Number	Marks	Length (minutes)	% of total A Level
1	Biological Processes (01)	100	135	37
2	Biological Diversity (02)	100	135	37
3	Unified Biology (03)	70	90	26

Component 01 assesses content from Modules 1, 2, 3 and 5.

Component 02 assesses content from Modules 1, 2, 4 and 6.

Component 03 assesses content from all Modules (1 to 6).

All components include synoptic assessment.

In addition to the written examinations all students must complete Component 04, the Practical Endorsement. This is a selection of non-examined practical activities that will take place throughout the two-year course. Module 1 of the specification content relates to the practical skills learners are expected to gain throughout the course that are assessed throughout the written examinations and also through the Practical Endorsement. In order to pass the A Level course, your teachers will need to attest to your ability to carry out experimental procedures safely and accurately.

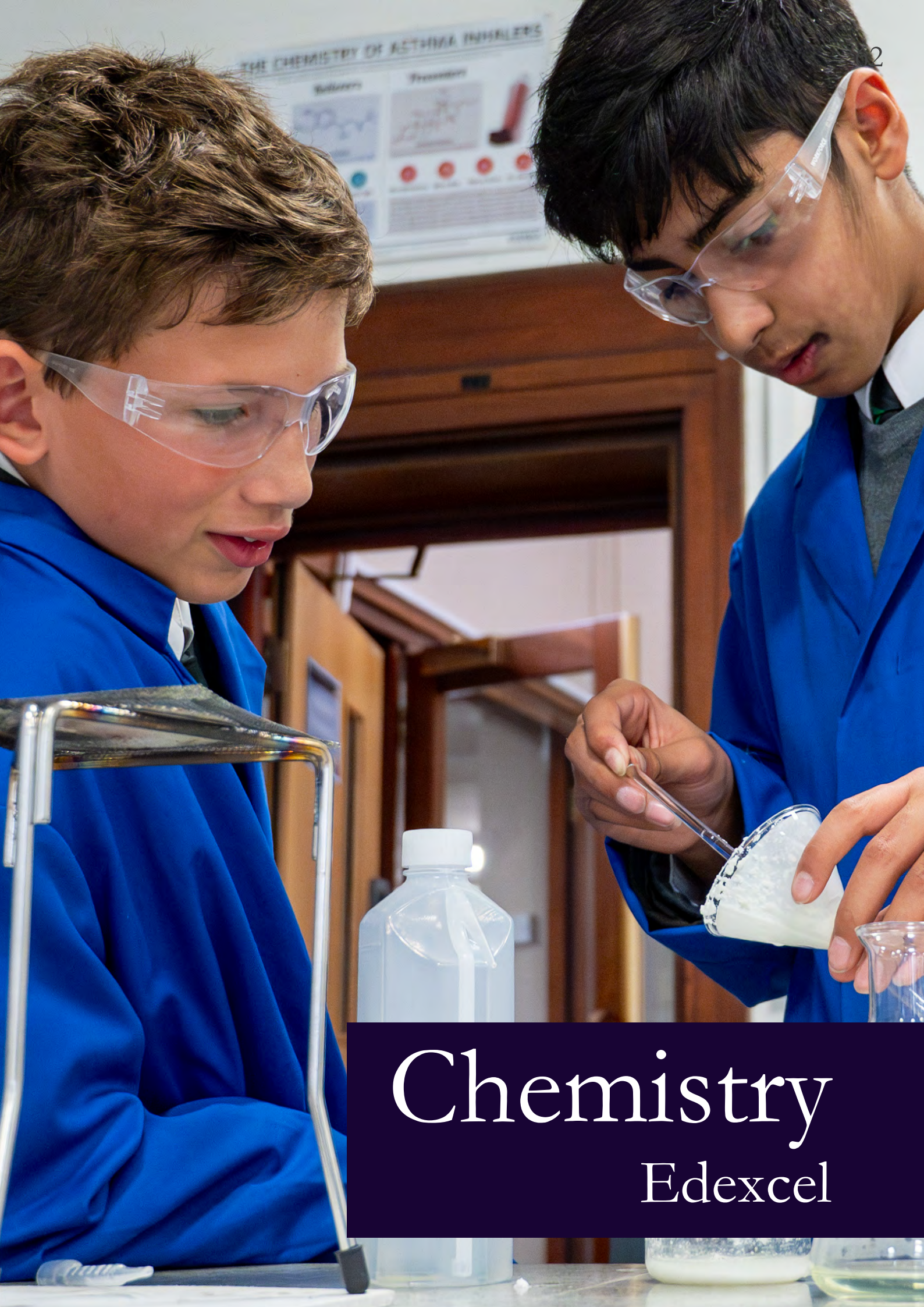
The study of Biology at A Level provides a good foundation for courses in Veterinary Science, Medicine, Pharmacology, Biology, Biochemistry, Anatomy, Physiology, Zoology, Psychology, Dentistry and Environmental Science. Those wishing to study Medicine and Veterinary Science are encouraged to use part of their holiday and/or weekends to widen their experience working in hospitals, care homes, shadowing doctors, GPs or Dentists.

Who Should Study Biology A Level?

It is expected that those who wish to study Biology at A Level have a genuine interest in the subject, are committed to working exceptionally hard both in and out of the lab as it is an extremely content heavy and challenging subject. The successful student will show a willingness to extend his involvement beyond routine class work and weekly written work by engaging in wider reading to derive the full benefits from a challenging and interesting course. Independent learning is vital. It is strongly advised that Biology is studied in conjunction with another Science subject at A Level.

Those opting to study Biology at A Level will be taught by two teachers, who will share the teaching of the course. Students will be tested regularly to monitor progress with end of topic tests spread throughout the two-year course.





Chemistry

Edexcel

J R Talboys
Head of Chemistry
jtalboys@mtsn.org.uk

The Chemistry Department will be offering the Edexcel Pearson specification for A Level. This is an exciting course and one that builds on the IGCSE course you have been studying for GCSE.

Course Structure

Throughout the course you will be taught by two teachers: one for the Organic side of the course and one for the Inorganic side. The Physical Chemistry topics are split between the two teachers. There are a total of 19 topics:

- Topic 1: Atomic structure and the Periodic Table
- Topic 2: Bonding and Structure
- Topic 3: Redox I
- Topic 4: Inorganic Chemistry and the Periodic Table
- Topic 5: Formulae, Equations and Amounts of Substance
- Topic 6: Organic Chemistry I
- Topic 7: Modern Analytical Techniques I
- Topic 8: Energetics I
- Topic 9: Kinetics I
- Topic 10: Equilibrium I
- Topic 11: Equilibrium II
- Topic 12: Acid-base Equilibria
- Topic 13: Energetics II
- Topic 14: Redox II
- Topic 15: Transition Metals
- Topic 16: Kinetics II
- Topic 17: Organic Chemistry II
- Topic 18: Organic Chemistry III
- Topic 19: Modern Analytical Techniques II

Assessment

At the end of the course, you will sit three written papers:

Papers 1 and 2 will each be 105 minutes in length, consist of 90 marks, assess specific topics from the course, and represent 30% of the total qualification. The remaining 40% will be assessed in the synoptic Paper 3, which will be worth 120 marks and last 150 minutes. As well as drawing from any part of the specification, this paper will assess your understanding of experimental methods.

Throughout the course, your practical skills will also be assessed by your teachers within lessons. In order to pass the A Level course, your teachers will need to attest to your ability to carry out experimental procedures safely and accurately. This is a holistic judgement that you need to demonstrate consistency across the two years to pass.

Should I study A Level Chemistry?

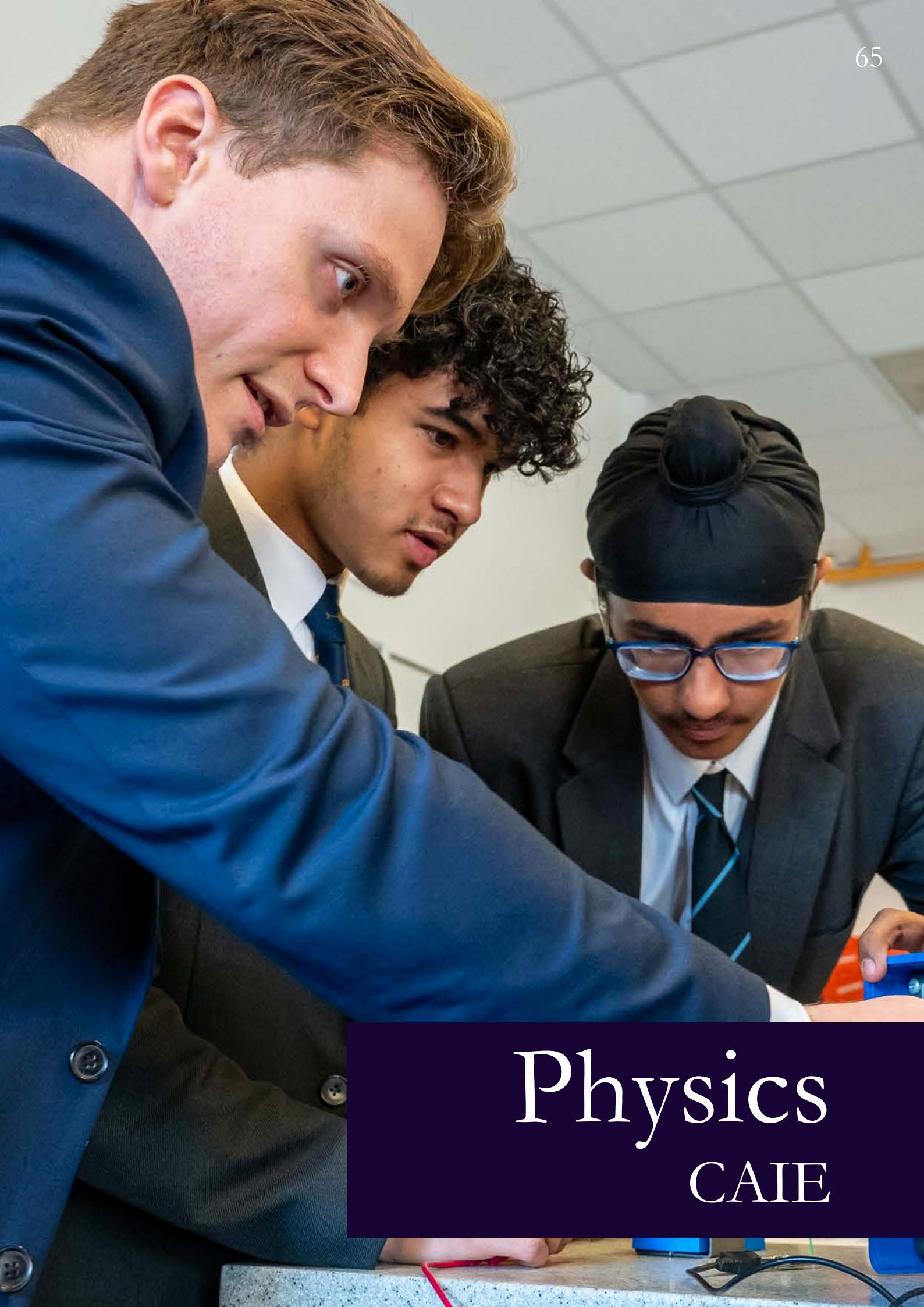
Do you enjoy understanding how the world around you works on a microscopic level? Do you want to be able to synthesise molecules like aspirin? Or explain what causes certain substances to exhibit colour? Or even the chemistry behind the battery in your phone? A Level Chemistry looks to answer these questions, ultimately developing your problem-solving skills and your ability to justify scientific phenomena.

A successful student will show a willingness to extend his involvement beyond routine class work and weekly written work by engaging in wider reading to derive the full benefits from a challenging and interesting course.

A good IGCSE grade (8 or 9 required) should not be the only indicator of whether Chemistry is a suitable A Level choice. Recommendations from teachers should be carefully considered. The jump from IGCSE to A Level is sharp, and a lot of hard work is unavoidable!

Above all, however, you should study A Level Chemistry if you have enjoyed studying it thus far.



A photograph of three male students in school uniforms (dark suits, white shirts, and ties) working together on a physics experiment. The student on the left, with light brown hair, is leaning over and pointing at something. The student in the middle has dark curly hair and is looking down. The student on the right is wearing a black turban, glasses, and a striped tie, and is also looking down. They are in a classroom setting with a white tiled ceiling. A dark purple rectangular box is overlaid at the bottom right, containing the text 'Physics' and 'CAIE' in white serif font.

Physics

CAIE

A Mayadeen
Head of Physics
amayadeen@mtsn.org.uk

Merchant Taylors' offers the CAIE International A Level Physics course. The course blends material that builds directly onto the IGCSE material, whilst introducing new modern concepts in Physics.

The aim of any Physics course must be to enable the student to develop an understanding of the phenomena which are observed in every part of the universe. Further, students should develop their ability to explain these phenomena and solve problems involving them by applying simple Physics concepts with logic, reason and using mathematical skills. In addition, students will carry out experiments to investigate these phenomena.

It is important that students who embark on Physics at A Level appreciate that the course does not require extensive learning of isolated knowledge. Instead, students should expect to learn to understand how a reasonably small set of concepts can be applied to a wide variety of situations to explain them. **Problem solving and application of understanding are the key skills required in A Level Physics;** these transferable skill makes it a desirable A Level to study. Although the real reason to study Physics is if you are fascinated by how the world around you works.

In deciding whether a course in Physics is suitable for him, a prospective student must review his level of endeavour in IGCSE Physics. It is clear that it is those students who are genuinely inquisitive and prepared to work thoroughly who will enjoy the most success.

The Importance of Maths in Physics

While it is not an absolute requirement to study A Level Maths alongside Physics, not many boys study Physics without Maths at our school, as mathematical fluency is required to do well. If the Maths Department would advise you against taking A level Maths, then A level Physics would also not be an advisable subject choice. Boys who undertake Physics without A Level Maths will be required to learn some extra Maths beyond what they have done in Fifth Form. Further, the study of Maths with Physics it is highly advisable, and the subjects are often taken together. To pursue Physics or Engineering at university A Level Maths is essential. It is worth considering that if you wish to read Physics or Engineering at a top university you would typically also take Further Maths as well, if possible, to strengthen your application and prepare you for the course. Top Universities may question why you have not taken Further Maths if you could have taken it.

The topics covered in A Level Physics will be in the following sections:

1. Physical Quantities and Units
2. Kinematics
3. Dynamics
4. Forces, Density and pressure
5. Work, Energy and power
6. Deformation of solids
7. Waves
8. Superposition
9. Electricity
10. D.C. Circuits
11. Particle Physics
12. Motion in a circle
13. Gravitational Fields
14. Temperature
15. Ideal Gases
16. Thermodynamics
17. Oscillations
18. Electric Fields
19. Capacitance
20. Magnetic Fields
21. Alternating Currents
22. Quantum Physics
23. Nuclear Physics
24. Medical Physics
25. Astronomy and Cosmology

Assessment Overview

Paper 1	Paper 2	Paper 3
Multiple Choice 1 hour 15 minutes, 40 marks 40 multiple choice questions. Questions are based on the AS Level syllabus content. Externally assessed. 31% of the AS Level 15.5% of the A Level	AS Level Structured Questions 1 hour 15 minutes, 60 marks Structured questions. Questions are based on the AS Level syllabus content. Externally assessed. 46% of the AS Level 23% of the AS Level	Advanced Practical Skills 2 hours, 40 marks Practical work and structured questions. Questions are based on the experimental skills in the Practical assessment section of the syllabus. The context of the questions may be outside the syllabus content. Externally assessed. 23% of the AS Level 11.5% of the A Level

Paper 4	Paper 5
A Level Structured Questions 2 hours, 100 marks Structured questions. Questions are based on the A Level syllabus content; knowledge of material from the AS Level syllabus content will be required. Externally assessed. 38.5% of the A Level	Planning, Analysis and Evaluation 1 hour 15 minutes, 30 marks Candidates answer two compulsory questions. Questions are based on the experimental skills in the Practical assessment section of the syllabus. The context of the questions may be outside the syllabus content. Externally assessed. 11.5% of the A Level

What do these A Level Physics topics involve?

The Electricity topic builds directly on the work done at IGCSE to provide a more complete picture. Similarly, the Mechanics and Deformation of Solids topics continues to build on familiar concepts relating to forces and energy from IGCSE. The material will now be covered in a much more mathematical way. Meanwhile, the Quantum Physics offers an introduction to an entirely new and very exciting branch of Physics; including looking at concepts such as the photoelectric effect and wave-particle duality. The Standard Model of Particle Physics will also be covered. The Waves topic again builds on IGCSE work then explores the new wave behaviours of interference and diffraction, again this will be more mathematical than at IGCSE.

The topics of Fields, Circular Motion, Oscillations and Thermodynamics completes the student's education in Classical Physics. Fields covers electric, magnetic and gravitational fields and capacitors and Thermodynamics covers gas laws and specific heat capacities and latent heat. Nuclear Physics covers radioactivity, nuclear physics including fission and fusion.

How will my practical skills be assessed?

A dedicated programme of practical skills development is used to ensure each student is fully prepared for the practical exam, paper 3, which involves two experiments, and the written practical paper 5.

If you wish to discuss your suitability for A Level Physics, please speak to Mrs Mayadeen and your IGCSE Physics teacher.



Sports Science (Physical Education)

AQA

P J B Davies
Head of Sports Science
pdavies@mtsn.org.uk

Why Sports Science?

Our A Level Sport Science AQA qualification allows students to play to their strengths and gain dynamic theoretical and practical skills for further education or work. Our programme of study aims at equipping our pupils with an understanding of the skills relating to scientific, socio-cultural, psychological, and practical aspects of physical education.

A Level Sport Science also opens up a whole number of options at university; these include sports science, physiotherapy, sports medicine, sports marketing or coaching. Sports Science will benefit anyone who is studying Sciences at A Level and links nicely with other A Levels including Biology and Psychology.

Specification at a Glance

This qualification is now linear, meaning all students will sit their exams and submit all their non-exam assessment at the end of the course:

- Applied anatomy and physiology
- Skill acquisition
- Sport and society
- Exercise physiology
- Biomechanical movement
- Sport psychology
- Sport and society and the role of technology in physical activity and sport

Assessments

Paper 1: Factors affecting participation in physical activity and sport

What's assessed

Section A: Applied anatomy and physiology = multiple choice, short answer and extended writing (35 marks)

Section B: Skill acquisition = multiple choice, short answer and extended writing (35 marks)

Section C: Sport and society = multiple choice, short answer & extended writing (35 marks)

How it's assessed

Written exam: 2 hours

105 marks

35% of A Level

Paper 2: Factors affecting optimal performance in physical activity and sport

What's assessed

Section A: Exercise physiology & biomechanics = multiple choice, short answer & extended writing (35 marks)

Section B: Sport psychology = multiple choice, short answer and extended writing (35 marks)

Section C: Sport and society & technology in sport = multiple choice, short answer & extended writing (35 marks)

How it's assessed

Written exam: 2 hours

105 marks

35% of A Level

Non-exam assessment (NEA): Practical performance in physical activity and sport

What's assessed

There are two aspects to the NEA:

1. Performance assessment (practical performance) Students are assessed as a performer or coach in the full sided version of one activity with evidence recorded via video. ***N.B most students will need to be able to perform one sport from the course specification to a minimum standard of decent club level or school B team level. Pupils are required to collect video footage of them competing in their sports during competitive matches/races and this is the responsibility of the pupils to record and collate footage. If you are unsure as to whether you think the standard of performance is suitable enough for the course, then please contact Mr Davies (pdavies@mtsn.org.uk) to discuss.***
2. Performance analysis assessment (analysis and evaluation). A written/verbal analysis of performance, worth 45 Marks. ***N.B this does not need to be written about the same sport that you are performing in.***

How it's assessed

Internal assessment, external moderation

90 marks

30% of A Level

If you have any further questions regarding the course, please do come and speak with us



MERCHANT TAYLORS'
School

Mechant Taylors' School, Sandy Lodge Lane, Northwood, Middlesex, HA6 2HT

Tel: 01923 820644

mtsn.org.uk