



Kettering  
science Academy

# Dream big, go far



*A valued member of the*

**Brooke Weston Trust**



## Sixth Form Prospectus 2020/21



“ Leaders have an ambitious vision for students in the Sixth Form. They have put in place a curriculum that extends beyond academic study.”

*Ofsted 2019*





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# welcome

## Dear students and families

**I am really proud to be Principal of KSA. We are an Academy that aspires to be the best at everything we do.**

**We inspire achievement in our students and believe in developing the whole person through strong academic and pastoral support. We are a caring, proactive community which has our students at the heart of everything we do.**

Our new multi-million pound Sixth Form block is a huge asset to our school and will enhance your Post-16 experience.

It comprises three-storey campus-style accommodation with classrooms, study spaces, a library and catering facilities.

This, combined with our wide range of subjects and track record of students going on to top universities, makes studying in the Sixth Form at KSA a truly exciting prospect. We always believe in encouraging our students to 'be the best they can be' and our accommodation reflects the importance and pride we place in our Sixth Formers.

KSA supports a wealth of extra-curricular activities and educational experiences which help students prepare for life in the wider world.

Students are treated as individuals at KSA and receive an education that is best tailored to their abilities and aspirations.

Our ambition is to provide each student with an outstanding

education that will prepare them for the challenges, demands and opportunities they will meet in the 21st century.

We are a valued member of the Brooke Weston Trust and its network of schools. Our association with the Trust further allows KSA's students and staff access to a range of excellent opportunities, and gives us a shared sense of belonging and identity through joint ventures that occur across the Trust.

We are very proud of our results at A level and our students, who go on to high quality destinations.

KSA is a very exciting and forward thinking Academy, we look forward to welcoming you to our Sixth Form.

**Tony Segalini**  
Principal



**At Kettering Science Academy's Sixth Form we offer a personalised experience for all our students.**

**We have a proven track record of success with an ever-increasing number of students obtaining places at Oxbridge and Russell Group universities as well as growing numbers securing prestigious apprenticeships.**

A big part of our ever-growing success, is the emphasis we place on belonging to a community. When you become a student in our Sixth Form, we welcome you into our family and offer you ongoing support to follow your dreams. You will meet your tutor every morning and, through a bespoke mentoring programme, they will get to know you and how to best support you as you progress.

During tutor time, you will also work on developing your life skills including learning about finance and cooking!

Our high-quality facilities, dedicated staff and new Sixth Form block allow you to work independently

of the younger years while remaining a central part of the school. This new space has allowed our current students to take more control of their studying and develop their time management in preparation for their next step.

Achievement for every student comes through hard work and we believe in creating the conditions which enable every learner to be successful. While every student will study at least three A level or vocational qualifications, the extra-curricular activities we offer allow you to develop key skills including independent study skills, leadership and confidence.

We understand that each young person has different aspirations and we work tirelessly to support you to achieve these. Our pastoral team, along with our independent careers adviser, offer you the support and guidance needed at each stage of your journey. A collaborative partnership with other Brooke Weston Trust schools, local colleges, universities and organisations enables us to offer a varied and rich curriculum. Through working alongside these partners, we seek to offer a range of external speakers covering topics from university life and apprenticeships to job opportunities in a variety of sectors.

Our experience of supporting students to achieve their best and aim for the highest universities means we are aware of the challenges that our young people face during the transition between Years 11 and 12. We have well-established procedures in place to ensure this process is as smooth as possible. We are proud of all of our Sixth Form students at the Academy and our continued investment in them is a sign of our commitment to each and every student that begins their A level and vocational studies with us.

I look forward to welcoming you to our Sixth Form in September 2021. If you have any queries about the Sixth Form, please get in touch.

**Rachael Davies**  
Head of Sixth Form

# Curriculum

- Most students study three A level or vocational subjects.
- A levels are now linear meaning that the overall qualification at A2 is assessed entirely at the end of the second year.
- Assessment varies across subjects – specific subject information can be found in the course details found later in this prospectus.
- A range of vocational qualifications are on offer alongside the traditional A level courses, allowing a mix and match approach whereby students can study a combination of A level and vocational qualifications.



## Entry Requirements

In order to begin studies here at Kettering Science Academy, students must achieve five GCSEs at grade 5 or above. If students are studying vocational subjects only, they must achieve five GCSEs at grade 4 or above. Some subjects have additional entry requirements so please read the specific subject information carefully.

## Achievement

Staff at Kettering Science Academy are experts in their subject areas and provide a personalised learning programme tailored to the needs of our post-16 students. We set aspirational targets to help students accomplish their best and feel proud of their achievements. Many students go on to study at university, competing for top courses nationally. Previous students have gone on to study at world-class universities including Harvard, The University of Cambridge and Russell Group universities including Durham, Nottingham, Southampton and Manchester.

## Values and Expectations

There is a positive learning environment in our Sixth Form which is based on clear expectations and mutual respect. Sixth Form students are expected to work and study independently, although there are opportunities for students to study with peers and staff in subject areas. The Sixth Form is part of the collegiate structure of the Academy and is integrated into the wider academic community, allowing students to participate in sporting activities and engage in the enrichment programme. Students are expected to leave Kettering Science Academy as socially confident young adults who have experienced self development in addition to excellent academic success.





“Students appreciate the help and support that they receive. They particularly value the guidance they get when applying for future studies or training”  
*Ofsted 2019*

## Tutor Support

Sixth Form tutors are responsible for students’ academic progress. Their job is to support students to achieve their targets, nurturing them along the way. The tutor will also assist students with individualised guidance for progression from the Academy to future pathways at university, apprenticeships or in employment.

## Financial Support

The 16-19 Bursary is available for students from low income families to support their education. Application forms are available from student reception. Free school meals are also available to eligible Sixth Form students. Apply at [www.northamptonshire.gov.uk](http://www.northamptonshire.gov.uk)

## Progress Checks

Student progress and attainment is monitored four times each academic year and reported to the student and their parents/guardians. During these periods of monitoring students and staff will discuss their progress so far and, if necessary, intervention will be put in place to support students to achieve their targets.

## Parents’ Evenings

Parents’ Evenings are arranged throughout the year where progress and attainment can be discussed with their child's form tutor and subject tutors.

# Opportunities

## Enrichment

### Academic:

#### Future Learn Awards

These are awards based on interesting topics in different fields run by universities.

#### Young Enterprise

An opportunity for students to set up and manage their own business, taking on different roles of responsibility and working with local employers.

#### University Taster Days

Students can opt into a variety of taster day experiences from a range of universities.

#### National Citizen Service

NCS gives young people a unique opportunity to develop greater confidence, self-awareness and responsibility. It encourages personal and social development by working on skills like leadership, teamwork and communication. Young people will make friends with new people and face new challenges on residential weeks. They will work with businesses and local community organisations to design and deliver a 30 hour social action project on an issue they are passionate about.

#### Charity Events

Students can plan, organise and run charity events for the whole school e.g. Children in Need, Sport Relief and Macmillan Cancer Support.

#### Librarian

Students can train as librarians and assist in the school library, running special events.

### Personal:

#### Creative

First aid, film, music and drama clubs.

#### Sport

Sports clubs, sports leader's award and Duke of Edinburgh's Award.

#### Mentoring

Peer mentoring throughout the Academy.

#### Individual Work Experience

All students will complete a week long work experience placement in the summer term of Year 12. Students will be required to research and apply for their placement with support from their tutor.

#### Community Projects

Sixth Form students work with other year groups to plan and organise projects involving younger students and the community. The aim is to develop their social and citizenship skills while being role models for younger students at the Academy.

#### Head Boy and Girl

The Head Boy and Girl are elected by their peers annually. Their role is to represent the Sixth Form on the school council, attend and speak at open evenings and take on leadership roles in the Academy. They are involved in appointments to the committee teams and the teaching staff. They have a key role in the Sixth Form review. They manage and liaise with the Sixth Form committees.

#### Sixth Form Ambassadors

Sixth Form students have the opportunity to become an ambassador, working with staff to promote the Academy to the wider community and accompanying visitors. This role develops students' confidence and communication skills.

#### Preparation for the future

Academic preparation includes visits to universities and workshops on student finance, bursaries, how to apply to university and apprenticeships. Sixth Form students also benefit from guest speakers who talk about different careers.

To develop students' life skills, Kettering Science Academy also offers workshops such as cooking, first aid and driving safety.

#### Destinations and courses in the last three years:

We are very proud of the destinations that all of our students go on to. Some examples of courses and University destinations that our students have gone on to are shown on the facing page.

"Students in the Sixth Form behave well."

*Ofsted 2019*

#### Degree apprenticeships:

We are delighted that many students have successfully achieved degree apprenticeships, which enable them to complete their traditional academic studies, alongside the benefit of working with companies, often with national or international profiles and established career structures.

Our students have taken up degree apprenticeships in such diverse areas as banking, computer science and the construction industry. We expect these opportunities to expand further as employers seek to recruit talented young people who they can train to fit in with their company's ethos and organisational needs.

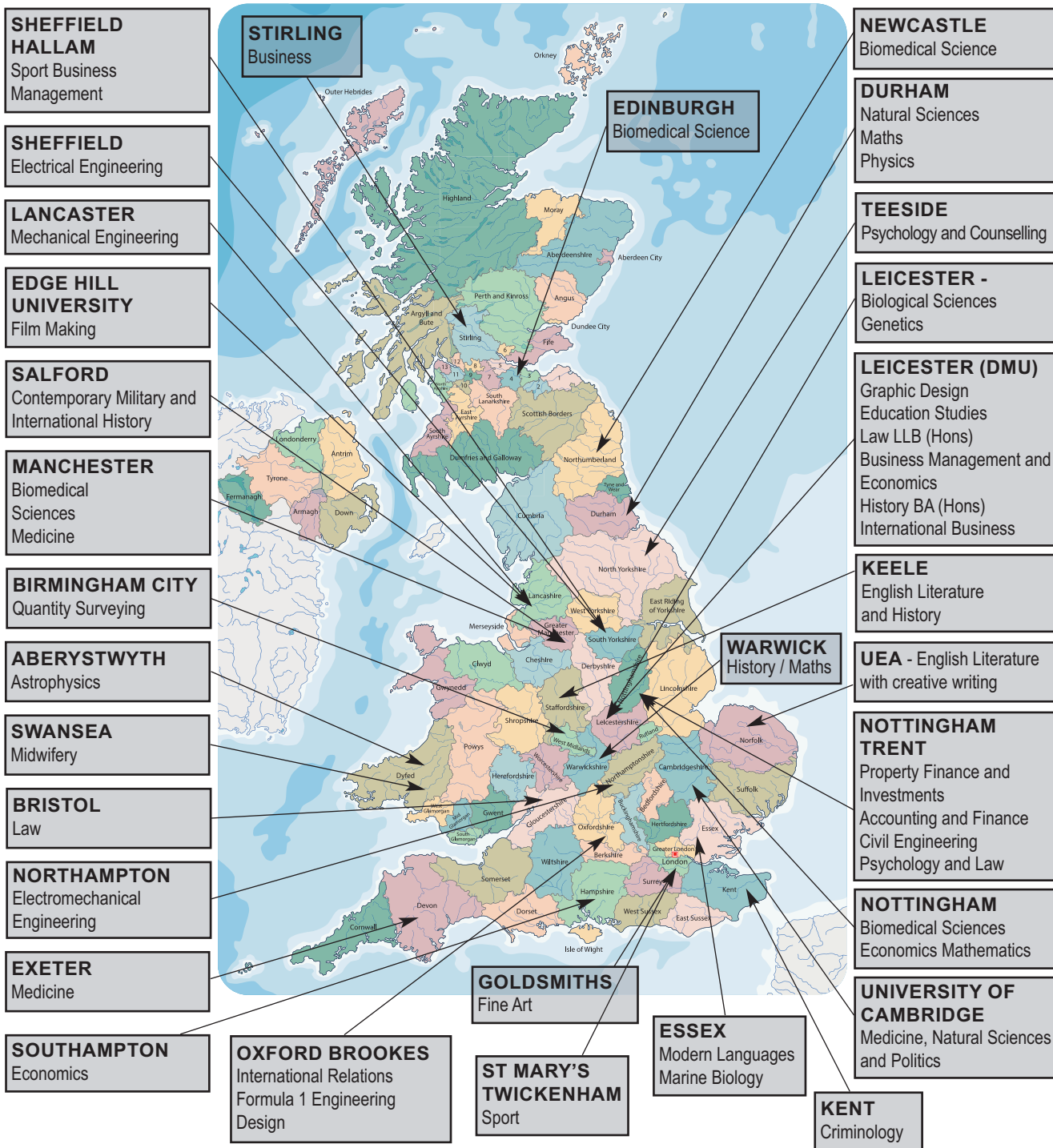


# Student Destinations

An overview of the university destinations and courses that some of our most recent students have secured.



**HARVARD**  
Chemical Engineering





# Art & Industrial Design

## Art and Design: Fine Art A Level

Exam Board:  
AQA

Assessment:  
External Assessment  
in June

Entry Requirements:  
This course is open to students who have achieved a grade 5 in an art and design endorsed subject  
or  
A level 2 pass in an art or design BTEC qualification

### Units studied in Year 12:

**Unit 1** - Students produce an extended collection of work that exemplifies aspects of their developing knowledge, skills and understanding. It should provide evidence of research, the development of ideas, creative skills and critical/contextual understanding. It should demonstrate the student's ability to sustain work from an initial starting point to a realisation.

### Units studied in Year 13:

**Unit 1** - continued, Personal Portfolio - In their major project students develop work based on an idea, issue, concept or theme leading to a finished outcome or a series of related finished outcomes.

Personal Study - Continuous written prose of a minimum 1,000 – 3000 words connecting with an area/s of contextual investigation within the personal portfolio.

**Unit 2** - Students respond to a stimulus, provided by AQA, to produce work which provides evidence of their ability to work independently within specified time constraints. They develop a personal and meaningful response which addresses all the assessment objectives and leads to a finalised outcome or a series of related finished outcomes.

*Over the two year course, students will focus on building a foundation of skills that include painting and drawing, printmaking, sculpture and lens based image making.*

### Future Pathways:

The course will develop students' skills needed to produce a high standard of work for a portfolio, interview or degree. Students who successfully complete the qualification will be prepared to study a wide range of creative and combined degrees or complete a Foundation Diploma in Art and Design at university, experiencing different art and design disciplines that help build a portfolio for application on to a specialist Art Degree.

Art is a multi-disciplined pursuit with many potential career opportunities including arts administration, museums, education or therapy, photography, film, video, print, fashion, textile design, fine art, visual art, graphic design, illustration, performing arts, music, advertising, architecture and product design.

# Design and Technology: Product Design A Level

**Exam Board:**  
AQA

**Assessment:**  
Coursework and  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 5 in an art and design endorsed subject  
**or**  
A level 2 pass in an art or design BTEC qualification

## Units studied in Year 12:

**Unit 1** - Technical principles and core designing and making principles

**Unit 2** - Design and making

## Units studied in Year 13:

**Unit 1** - Technical principles and core designing and making principles

**Unit 2** - Specialist knowledge, technical design and making principles

**Unit 3** - Practice application, design and making

## Future Pathways:

This course helps students take a broad view of design and technology, develops their capacity to design and make products and their appreciation of the complex relations between design, materials, manufacture and marketing. Product design encompasses a wide range of design disciplines but is firmly rooted in the skills required to design and make high quality products. Students who successfully complete this qualification will have an excellent foundation to go on to study a degree in product design, graphic design, furniture design, architecture, automotive design, interior design or landscape design. Studying fashion and textiles will help prepare students for further study or working life in an increasingly demanding consumer society.



# Design and Technology: Fashion and Textiles A Level

**Exam Board:** AQA

**Assessment:**  
Coursework and  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 5 in an art and design endorsed subject  
**or**  
A level 2 pass in an art or design BTEC qualification

## Units studied in Year 12:

This qualification places greater emphasis on iterative design and developing construction skills. Students will use their creativity and imagination to design and make prototypes that solve real and relevant problems, considering their own and others' needs, wants and values. Students will develop their practical skills studying modules in pattern drafting, garment construction, dyeing, embroidery, printing and quilting. Alongside this students will learn the theoretical knowledge of the fabrics and fibres they are working with.

## Units studied in Year 13:

Students will undertake a NEA (Non-Exam Assessment). Within this students will get to build on their production skills to create their own design brief and research, design, develop and realise their own textiles product. This will make up 50% of the A level. Students will also continue with the development of their theoretical knowledge in preparation for two exams. The first in technical principles is worth 30% of the A level. The second will look at designing and making principles. This will include product analysis and commercial manufacture. This is worth 20% of the A level. Both exams will be a mix of long and short answer questions.

## Future Pathways:

This course helps students take a broad view of design and technology. Students will develop their capacity to design and make products and appreciate the complex relations between design, materials, manufacture and marketing. Textiles and fashion encompasses a wide range of design disciplines but is firmly rooted in the skills required to design and make high quality products. Students who successfully complete this qualification will have an excellent foundation to go on to study a degree in the fashion and textiles industry, fashion design, interior design, buying and merchandising. Studying fashion and textiles will help prepare students for further study or working life in an increasingly demanding consumer society.



# Business & Economics

## Business A Level

**Exam Board:**  
AQA

**Assessment:**  
External Assessment  
in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 5 in GCSE business **or equivalent** A grade 5 in English language or literature

### Units studied in Year 12:

**Unit 1** - Business 1    **Unit 2** - Business 2

### Modules Include:

1. What is business?
2. Managers, leadership and decision-making
3. Decision making to improve marketing performance
4. Decision making to improve operational performance
5. Decision making to improve financial performance
6. Decision making to improve human resource performance

### Units studied in Year 13:

**Unit 1** - Business 1    **Unit 2** - Business 2    **Unit 3** - Business 3

### Modules Include:

1. What is business?
2. Managers, leadership and decision-making
3. Decision making to improve marketing performance
4. Decision making to improve operational performance
5. Decision making to improve financial performance
6. Decision making to improve human resource performance
7. Analysing the strategic position of a business
8. Choosing strategic direction
9. Strategic methods: how to pursue strategies
10. Managing strategic change

### Future Pathways:

This course will give students flexible routes of progression into higher education, training or employment, providing a broad background to business topics. Students who successfully complete this qualification will be prepared to study a degree in business accountancy, finance, HR management or marketing. Career pathways include accountancy, banking, management consultancy, human resources, operational research, logistics and distribution, retail, sales and marketing and events.

# Business Cambridge Technical Extended Certificate

**Exam Board:**  
OCR

**Assessment:**  
Three Portfolio Units  
and External Exam  
in June

**Entry Requirements:**  
This course is open to  
students who have  
achieved a grade 4 in  
GCSE business  
**or**  
A grade 4 in English  
language or literature

## **Units studied in Year 12:**

**Unit 1** - Business Environment

**Unit 2** - Working in Business

**Unit 4** - Customers and Communication

## **Units studied in Year 13:**

**Unit 5** - Marketing and Research

**Unit 8** - Introduction to Market Research

## **Future Pathways:**

This course will give students flexible routes of progression into higher education, training or employment, providing a broad background to business topics. Students who successfully complete this qualification will be prepared to study a degree in business accountancy, finance, HR management or marketing. Career pathways include accountancy, banking, management consultancy, human resources, operational research, logistics and distribution, retail, sales and marketing and events.

# Economics A Level

**Exam Board:**  
AQA

**Assessment:**  
External Assessment  
in June

**Entry Requirements:**  
This course is open to  
students who have  
achieved a grade 6 in  
GCSE maths and grade 5  
in GCSE English A

## **Units studied in Year 12:**

**Unit 1** - Markets and market failure

**Unit 2** - National and international economy

## **Units studied in Year 13:**

**Unit 2** - National and international economy

**Unit 3** - Economic principles and issues

## **Future Pathways:**

This course will give students flexible routes of progression into higher education, training or employment, providing a broad background to markets and economic principles. Students who successfully complete this qualification will be prepared to study a degree in business accountancy, finance, HR management or marketing. Career pathways include accountancy, banking, management consultancy, human resources, operational research, logistics and distribution, retail, sales and marketing and events.



# English

## English Language A Level

**Exam Board:** AQA

**Assessment:**  
Coursework and  
External Assessment  
in June

**Entry Requirements:**  
This course is open to  
students who have  
achieved a grade 5 in GCSE  
English language

### Units studied in Year 12:

**Unit 1** - Language and the Individual

**Unit 2** - Language Varieties

### Units studied in Year 13:

**Unit 1** - Language, the Individual and Society

**Unit 2** - Language, Diversity and Change

**Unit 3** - Independent Research Project: Language in Action

### Future Pathways:

This course allows students to explore the English language, past and present, and deepens their understanding of this global communication. Students who successfully complete this qualification will be prepared to study a degree in publishing, law or advertising. Career pathways include journalism, publishing, web content manager, advertising or law.

## English Literature A Level

**Exam Board:** AQA

**Assessment:**  
Coursework and  
External Assessment  
in June

**Entry Requirements:**  
This course is open to  
students who have  
achieved a grade 5 in GCSE  
English literature

### Units studied in Year 12:

**Unit 1** - Love Through the Ages: Shakespeare and Poetry

**Unit 2** - Love Through the Ages: Prose

### Units studied in Year 13:

**Unit 1** - Love Through the Ages (A study of a Shakespeare play is compulsory)

**Unit 2** - Texts in Shared Context: Modern Times

**Unit 3** - Independent Critical Study: Texts across Time

### Future Pathways:

This course will allow students to become critical thinkers, developing their own views and ideas. Students who successfully complete this qualification will be prepared to study a degree in journalism, education or theatre. Career pathways include media, journalism, law, theatre, education and publishing.



# Expressive Arts

## Drama and Theatre A Level

**Exam Board:**  
Pearson (Edexcel)

**Assessment:**  
Coursework, External Practical Assessment and External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 4 in GCSE drama  
**or**  
A merit in BTEC drama

**Units studied in Year 12:**

- Unit 1** - Devising
- Unit 2** - Theatre Makers in Practice

**Units studied in Year 13:**

- Unit 1** - Exploration and Performance
- Unit 2** - Theatre Makers in Practice

**Future Pathways:**

This course is designed to allow students to showcase their individual and group performance skills and develop their devising skills to make original pieces of drama and theatre. Students who successfully complete this qualification will be prepared to study a degree in acting, theatre or stage management. Career pathways include acting, performing arts, drama, therapy and theatre.



# Music

## Music Performance BTEC Level 3 National Extended Certificate

**Exam Board:**  
Pearson (Edexcel)

**Assessment:**  
Externally-assessed units, Internally-assessed units and Synoptic assessment

**Entry Requirements:**  
This course is open to students who have achieved a grade 4 in GCSE music  
**or**  
A merit in music BTEC Level 2  
**or**  
A grade 4 in ABRSM or equivalent on an instrument

### Units studied in Year 12:

Students will complete two optional units.

### The optional units cover the following areas:

- Composing music
- Music performance session styles
- Solo performance
- Improvising music

### Units studied in Year 13:

**Unit 3** - Ensemble Music Performance

### Performance:

- A task set and marked by the exam board and completed under supervised conditions
- A two hour written exam
- A performance with evidence that totals between approximately half an hour and three quarters of an hour
- Written coursework and video evidence

### Future Pathways:

The course develops students' performance techniques and their communication and teamwork skills while allowing them to focus on their personal vocal/instrumental technique. Students who successfully complete this qualification will be prepared to study a degree in acting, music, sound engineering or production. Career pathways include professional musician, record producing, teaching and lecturing, music journalism, arts administration and composing.



# Extended Project Qualification (EPQ)

## EPQ

**Exam Board:**  
AQA

### **Assessment:**

The evidence for assessment will comprise the following:

- the completed Production Log and Assessment Record including the Project Proposal Form, Presentation Record and Candidate Record Form
- the project product including a written report (1000 -5000 words depending on the nature of the project) and any other evidence, as appropriate, depending on the topic or subject area chosen.

### **Entry Requirements:**

5 GCSE grades of 7 or higher

### **Units studied in Year 12:**

- Choose an area of interest and draft a project title and aims
- Plan, research and carry out a project
- Keep a production log of all stages of the project production, reviewing and evaluating their progress
- Complete the project product
- Prepare and deliver a presentation
- Review the outcome of their project and presentation

### **Future Pathways:**

This course is designed to support students who applying for academic further education routes. There is sometimes the opportunity to lower the offer grades from a University if a student achieves a particular grade in the EPQ. The EPQ provides the student with the opportunity to demonstrate their passion in a particular field and use this research to demonstrate their knowledge at interviews. It is highly recommended for students intending to apply for Oxbridge, medicine, veterinary and Russell group universities.





## Ethics A Level

Exam Board:  
AQA

Assessment:  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 6 in GCSE ethics  
**or**  
a grade 5 in GCSE English language or literature  
**or**  
a grade 6 in another humanities subject

### Units studied in Year 12:

**Unit 1** - Philosophy of religion

**Unit 2** - Ethics and religion

### Units studied in Year 13:

**Unit 3** - Study of religion

**Unit 4** - The dialogue between philosophy of religion and religion

**Unit 5** - The dialogue between ethical studies and religion

### Future Pathways:

Students study the moral and ethical dimensions of philosophical thinkers and how these apply to modern ethical dilemmas such as abortion, euthanasia and war. Employers and universities know that this subject teaches people to think clearly and to express themselves coherently. In conclusion, the skills that you will develop in analysis and argument are valuable in a range of careers. For example, former students are accountants, personnel officers, solicitors, criminal psychologists, speech therapists, nurses, teachers and too many more to mention.

# Geography A Level

**Exam Board:**  
AQA

**Assessment:**  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 6 in GCSE geography  
**or**  
A grade 6 in science  
**or**  
A grade 6 in another humanities subject

## Units studied in Year 12:

- Unit 1** - Physical Geography: Water and carbon cycles, coastal systems, landscapes and hazards  
**Unit 2** - Human Geography and Geography Fieldwork Investigation: Changing places and fieldwork investigation and geography skills  
**Unit 3** - Geographical Investigation

## Units studied in Year 13:

- Unit 1** - Physical Geography: Water and carbon cycles, coastal systems, landscapes and hazards  
**Unit 2** - Human Geography: Global systems and global governance, changing places and either contemporary urban environments or population and the environment or resource security  
**Unit 3** - Geography Fieldwork Investigation  
Students complete an individual investigation which must include data collected in the field. The investigation must be based on a question or issue defined and developed by the student relating to any part of the specification content.

## Future Pathways:

This course opens a number of routes due to the investigative nature of the subject which encourages time management, development of data collecting and presenting techniques. Students who successfully complete this qualification will be prepared to study a degree in geography or environmental planning. Career pathways include advertising, education, environmental management, finance, law, marketing, retail, sales, social/health services and urban planning.

# History A Level

**Exam Board:** AQA

**Assessment:**  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 6 in GCSE history  
**or**  
A grade 5 in GCSE English language or literature  
**or**  
A grade 6 in another humanities subject

## Units studied in Year 12:

- Unit 1** - The quest for political stability 1871 - 1929  
**Unit 2** - Building a new Britain 1951 - 1979

## Units studied in Year 13:

- Unit 1** - The quest for political stability 1871 - 1991  
**Unit 2** - The making of modern Britain 1951 - 2000  
**Unit 3** - Historical investigation covering 100 years on a topic that does not overlap any other units studied (3000-3500 words)

## Future Pathways:

This course is well-respected with higher education institutions and employers due to the range of skills students develop including analysis, debate, evaluation, time management and independent research. Students who successfully complete this qualification will be prepared to study a degree in history, archaeology or politics. Career pathways include business, law, archaeology, politics, accountancy, teaching and specialist historical jobs such as museum curator or archivist.

# Law A Level

**Exam Board:**  
OCR

**Assessment:**  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 6 in GCSE English language or literature

## Units studied in Year 12:

**Unit 1** - The Legal System and Criminal Law

**Unit 2** - Law Making and the Law of Tort

**Unit 3** - Further Law – Human Rights or Contract Law

## Units studied in Year 13:

**Unit 1** - The Legal System and Criminal Law

**Unit 2** - Law Making and the Law of Tort

**Unit 3** - Further Law – Human Rights or Contract Law

## Future Pathways:

The course develops students' written communications, research and problem solving skills. Students who successfully complete this course will be prepared to study a degree in law, social work, journalism, policing or accountancy. Career pathways include solicitor, barrister, lawyer, legal executive, accountant, journalist, police officer and social worker.

# Politics A Level

**Exam Board:**  
OCR

**Assessment:**  
External assessment in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 6 in GCSE history or A grade 5 in GCSE English language or literature  
or  
A grade 6 in another humanities subject

## Topics Include:

the three traditional ideologies of Liberalism, Conservatism and Socialism

*plus*

one of either: feminism, nationalism, multiculturalism, ecologism or anarchism.

## Units studied in Year 12:

**Unit 1** - Government and politics of the UK

**Unit 2** - The government and politics of the USA and comparative politics

**Unit 3** - Political ideas

## Units studied in Year 13:

**Unit 1** - Government and politics of the UK

**Unit 2** - The government and politics of the USA and comparative politics

**Unit 3** - Political ideas

## Future Pathways:

Lively, relevant, controversial... there are many ways to describe Politics. It is one of the most interesting and engaging qualifications you can choose. Covering news and current affairs from the UK and US, it helps students understand how the UK is run and develops research, written communication and debate skills. It's ideal for those considering studying politics, sociology, ethics, advertising or journalism at university and is highly regarded by employers in industries including politics, international organisations, the media, government and the civil service.



# Computer Science and IT

## Computer Science A Level

**Exam Board:** OCR  
**Assessment:** Coursework and External Exam in June

**Entry Requirements:**

This course is open to students who have achieved a grade 6 in GCSE IT or A grade 5 in Computing

**Units studied in Year 12:**

- Unit 1** - Computing Principles
- Unit 2** - Algorithms and Problem Solving

**Units studied in Year 13:**

- Unit 1** - Computer Systems
- Unit 2** - Algorithms and Problem Solving
- Unit 3** - Independent Project

**Future Pathways:**

This course will develop students' creativity, analytical and problem solving skills, which are highly valued by universities and employers. Students who successfully complete this qualification will be prepared to study a degree in computer science, engineering, games design or information science. Career pathways include computer programming, games design, engineering, IT specialism, software developing and web design.

## IT Cambridge Technicals Diploma

**Exam Board:** OCR  
**Assessment:** Three Portfolio Units and External Exam in June

**Entry Requirements:**

This course is open to students who have achieved a grade 4 in Computing or a Level 2 Merit in an IT qualification

**Units studied in Year 12:**

- Unit 1** - Fundamentals of IT
- Unit 2** - Global Information
- Unit 7** - Data Analysis and Design

**Units studied in Year 13:**

- Unit 8** - Project Management
- Unit 9** - Product Development

**Future Pathways:**

This course will develop students' creativity, analytical and problem solving skills, which are highly valued by universities and employers. Students who successfully complete this qualification will be prepared to study a degree in computer science, engineering, games design or information science. Career pathways include computer programming, games design, engineering, IT specialism, software developing and web design.

# Maths

## Maths A Level

**Exam Board:**  
Edexcel

**Assessment:**  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 6 in GCSE maths

### Units studied in Year 12:

**Unit 1** - Pure Mathematics

**Unit 2** - Statistics and Mathematics

### Units studied in Year 13:

**Unit 1** - Year 12 content

**Unit 2** - Pure Mathematics and content not studied in Year 12

**Unit 3** - Statistics and Mechanics

### Future Pathways:

This course will teach students how to plan and process logically, to interpret the world around them in a factual way and improve their problem solving skills. Students who successfully complete this qualification will be prepared to study a degree in engineering, accountancy or architecture. Career pathways include quantity surveying, financial services and banking.

## Further Maths A Level

**Exam Board:**  
Edexcel

**Assessment:**  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 7 in GCSE maths (you must also choose A level maths)

### Units studied in Year 12:

**Unit 1** - Further Pure 1

**Unit 2** - Further Applied Mathematics

(Choice of Decision, Further Mechanics or Further Statistics)

### Units studied in Year 13:

**Unit 1** - As for Year 12

**Unit 2** - Further Pure 2

**Unit 3** - Further Applied 2 (An additional paper from Year 12)

### Future Pathways:

This course will teach students how to plan and process logically, to interpret the world around them in a factual way and improve their problem solving skills. Students who successfully complete this qualification will be prepared to study a degree in engineering, accountancy or architecture. Career pathways include quantity surveying, financial services and banking.

## AQA Certificate Level 3 Mathematical Studies

**Exam Board:**  
AQA

**Assessment:**  
External Exam in June

**Entry Requirements:**  
Minimum of grade 5 in GCSE Mathematics

### Units studied in Year 12:

**Unit 1**

- Analysis of data
- Maths for personal finance
- Estimation

### Units studied in Year 13:

**Unit 2A: Statistical techniques**

- Critical analysis of data models
- The normal distribution
- Probabilities and estimation
- Correlation and regression

### Future Pathways:

This course is designed to support students not taking A level mathematics but who wish to develop their skills beyond GCSE. This course will support any further career in which mathematics could be used to analyse or solve problems. This could include accounting, finance and teaching. Studying mathematics alongside essay subjects can help keep your options open for jobs, apprenticeships and university courses.



# Media

## Media A Level

**Exam Board:**  
Eduqas

**Assessment:**  
External Assessment  
in June

**Entry Requirements:**  
This course is open to  
students who have  
achieved a grade 5 in  
GCSE media

**or**  
A grade 5 in English  
language  
**or**  
A grade 5 creative  
subject such as art and  
photography

### **Units studied in Year 12:**

#### **Core content –**

1. Media Language
2. Media Representation
3. Media Industries
4. Media Audiences

**Unit 1** - All areas of the theoretical framework and understanding of the media products students have engaged with

**Unit 2** - Creating a Media Product

### **Units studied in Year 13:**

**Unit 1** - Issues and Debates in the Media

**Unit 2** - Case Study Products

**Unit 3** - Creating a Media Product

### **Future Pathways:**

This course enables students to demonstrate their creative and technical competence with new digital media whilst also allowing them the autonomy to design and create features which reflect their own media tastes. Students who successfully complete this course will be prepared to study a degree in film production, illustration, journalism, marketing, media, communications or photography. Career pathways include publishing, broadcasting, TV and film, advertising, marketing and journalism as well as the gaming industry.



# Modern Foreign Languages

## French/ German A Level

**Exam Board:**  
Edexcel

**Assessment:**  
External Assessment  
in June

**Entry Requirements:**  
This course is open to  
students who have  
achieved a grade 6 in  
GCSE French or German

### Units studied in Year 12:

Students will be assessed on their listening, reading, writing and speaking skills.

**Theme 1** - Social developments in France or Germany

**Theme 2** - Political and artistic culture in German or French speaking countries

**Theme 3** - Immigration and multicultural society

**Theme 4** - 20th Century history linked to the country of the target language:

German - Reunification of Germany

French - The occupation and resistance in France

### Units studied in Year 13:

The study of a French or German novel and film.

### Future Pathways:

This course allows students to gain invaluable language skills which enhance employment prospects in a variety of careers, both in Europe and further afield. Students who successfully complete this course will be prepared to study a degree or combined degree in French/German. Career pathways include travel, tourism, teaching, interpreting and translation.





## Applied Science A Level

**Exam Board:**  
OCR

**Assessment:**  
Portfolios and external  
Assessment in June

**Entry Requirements:**  
This course is open to  
students who have  
achieved a grade 5 in  
science and a grade 4 in  
GCSE maths and English  
language or literature

### **Units studied in Year 12:**

**Unit 1** - Science fundamentals

**Unit 2** - Laboratory techniques

**Unit 6** - Controls of hazards in the laboratory

### **Units studied in Year 13:**

**Unit 18** - Microbiology

**Unit 21** - Product testing techniques

### **Future Pathways:**

This qualification will provide learners with a broad understanding of vocationally-related sciences to support progress to higher education. This qualification can also prepare learners to take up employment in the applied science sector, either directly after achieving the qualification or via higher education.

Studying this qualification will enable learners to develop their knowledge and understanding of scientific principles, as well as those scientific practical skills recognised by higher education institutions and employers to be most important. The qualification also offers learners an opportunity to develop transferable skills such as problem-solving, research and communication as part of their applied learning.



## Biology A Level

**Exam Board:**  
OCR

**Assessment:**  
External Assessment  
in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 6 in GCSE combined science and a grade 5 in maths **or** A grade 6 in biology and a second science and a grade 5 in maths

### **Units studied in Year 12:**

**Unit 1** - Development of Practical Skills in Biology

**Unit 2** - Foundations in Biology

**Unit 3** - Exchange and Transport

**Unit 4** - Biodiversity, Evolution and Disease

### **Units studied in Year 13:**

**Unit 1** - Development of Practical Skills in Biology

**Unit 2** - Foundations in Biology

**Unit 3** - Exchange and Transport

**Unit 4** - Biodiversity, Evolution and Disease

**Unit 5** - Communication, Homeostasis and Energy

**Unit 6** - Genetics, Evolution and Ecosystems

### **Future Pathways:**

This course allows students to develop excellent practical, organisational, observational and investigative skills. Students who successfully complete this course will be prepared to study a degree in biological sciences, medicine, chemistry, biomedical science, forensic science, midwifery or psychology. Career pathways include research, teaching and lecturing, biotechnology, nursing, agriculture, physiotherapy, pharmaceutical practice, dentistry, veterinary science and the medical profession.



## Chemistry A Level

**Exam Board:**  
OCR

**Assessment:**  
External Assessment  
in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 6 in GCSE combined science and a grade 5 in maths **or** A grade 6 in chemistry and a second science and a grade 5 in maths

### Units studied in Year 12:

- Unit 1** - Development of Practical Skills in Chemistry
- Unit 2** - Foundations in Chemistry
- Unit 3** - Periodic Table and Energy
- Unit 4** - Core Organic Chemistry

### Units studied in Year 13:

- Unit 1** - Development of Practical Skills in Chemistry
- Unit 2** - Foundations in Chemistry  
Atoms, Compounds, Molecules and Equations, Amount of Substance, Acid-Base and Redox Reactions, Electrons, Bonding and Structure
- Unit 3** - Periodic Table and Energy  
The Periodic Table and Periodicity, Group 2 and the Halogens, Qualitative Analysis, Enthalpy Changes, Reaction Rates and Equilibrium (qualitative)
- Unit 4** - Core Organic Chemistry  
Basic Concepts, Hydrocarbon, Alcohols and Halo Alkanes, Organic Synthesis Analytical Techniques (IR and MS)
- Unit 5** - Physical Chemistry and Transition Elements  
Reaction Rates and Equilibrium (quantitative), pH and Buffers, Enthalpy, Entropy and Free Energy, Redox and Electrode Potentials, Transition Elements
- Unit 6** - Organic Chemistry and Analysis

### Future Pathways:

This course develops students' observational, investigative and problem solving skills while developing a creative mind. Students who successfully complete this course will be prepared to study a degree in biochemistry, chemical engineering, chemistry or medicine. Career pathways include chemistry, pharmacology, biochemistry, law and the healthcare profession.



## Physics A Level

**Exam Board:**  
OCR

**Assessment:**  
External Assessment  
in June

**Entry Requirements:**

This course is open to students who have achieved a grade 6 in GCSE combined science and a grade 5 in maths **or**

A grade 6 in physics and a second science and a grade 5 in maths

**Units studied in Year 12:**

**Unit 1** - Development of Practical Skills in Physics

**Unit 2** - Foundations of Physics

**Unit 3** - Forces and Motion

**Unit 4** - Electrons, Waves and Photons

**Units studied in Year 13:**

**Unit 1** - Development of Practical Skills in Physics

Skills of Planning, Implementing, Analysis and Evaluation

**Unit 2** - Foundations of Physics

Physical Quantities and Units, Scalars and Vectors, Measurements

**Unit 3** - Forces and Motion

**Unit 4** - Electrons, Waves and Photons

Charge and Current, Energy, Power and Resistance, Electrical Circuits, Waves and Quantum Physics

**Unit 5** - Newtonian World and Astrophysics

Thermal Physics, Circular Motion, Oscillations, Gravitational Fields and Astrophysics

**Unit 6** - Particles and Medical Physics

Capacitors, Electric Fields, Electromagnetism, Nuclear and Particle Physics, Medical Imaging

**Future Pathways:**

This course develops students' problem solving and mathematical skills. Students who successfully complete this course will be prepared to study a degree in astrophysics, biomedical engineering, engineering or physics. Career pathways include engineering, coastal scientists, pyrotechnics, astrophysicists, computer game design and weather forecasting.

# Social Science

## Children's Play, Learning and Development BTEC Level 3

**Exam Board:**  
Edexcel

**Assessment:**  
Portfolios and External Assessment in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 4 in GCSE maths and English language or literature

### Units studied in Year 12:

**Unit 1** - Child Development

**Unit 2** - Health & Safety in Early Years Settings

**Unit 3** - Play & Learning

### Units studied in Year 13:

**Unit 4** - Safeguarding in Early Years

**Unit 5** - Meeting Children's Physical Development, Physical Care and Health Needs

**Unit 6** - Observation, Assessment and Planning

### Future Pathways:

This course will allow students to develop communication, theory and practical skills. Students who successfully complete this course will be prepared to study a degree in early years, early childhood studies, conductive education, social work or primary education. Career pathways include social work, family support, primary education and pre-school teaching.

## Health & Social Care BTEC Level 3 National Extended Certificate

**Exam Board:**  
Pearson (Edexcel)

**Assessment:**  
Coursework and External Assessment in January/June

**Entry Requirements:**  
This course is open to students who have achieved a grade 4 in GCSE maths and English language or literature

### Units studied in Year 12:

**Unit 1** - Human Lifespan Development

**Unit 14** - Physiological Disorders and Their Care

### Units studied in Year 13:

**Unit 2** - Working in Health and Social Care

**Unit 5** - Meeting Individual Care and Support Needs

### Future Pathways:

The course develops students' understanding of human behaviour patterns, the organisational structures in the health and care sector and ethics, rights and responsibilities. Students who successfully complete the qualification will be prepared to study a degree in counselling, social work or nursing. Career pathways include social work, charity work, civil services, counselling, lecturing, healthcare and local government administration.

# Psychology A Level

**Exam Board:**  
AQA

**Assessment:**  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 5 in GCSE combined science, maths and English language or literature  
**or**  
A grade 6 in biology, grade 5 in maths and English language or literature

## Units studied in Year 12:

**Unit 1** - Introductory Topics in Psychology: Social Influence, Memory, Attachment

**Unit 2** - Psychology in Context: Approaches in Psychology, Psychopathology, Research Methods

## Units studied in Year 13:

**Unit 1** - Introductory Topics in Psychology: Social Influence, Memory, Attachment, Psychopathology

**Unit 2** - Psychology in Context: Approaches in Psychology, Biopsychology, Research Methods

**Unit 3** - Issues and Options in Psychology: Issues and Debates in Psychology, Relationships, Schizophrenia, Aggression

## Future Pathways:

This course develops students' critical thinking, analysis, research and communication skills. Students who successfully complete this course will be prepared to study a degree in an area of psychology including cognitive, developmental, clinical, criminal or social. Career pathways include counselling, education, healthcare, social work, the Police Force and the NHS.

# Sociology A Level

**Exam Board:**  
AQA

**Assessment:**  
External Exam in June

**Entry Requirements:**  
This course is open to students who have achieved a grade 5 in GCSE combined science, maths and English language or literature

## Units studied in Year 12:

- Families and Household
- Education
- Research Methods

## Units studied in Year 13:

- Crime and Deviance
- Beliefs in Society
- Theory and Methods

## Future Pathways:

This course develops students' critical thinking, analysis, research and communication skills. Students who successfully complete this course will be prepared to study a degree in sociology or social work. Career pathways include family support, research and social work.

# Physical Education

## Physical Education A Level

**Exam Board:** AQA

**Assessment:**  
Coursework and  
External Exams in June

**Entry Requirements:**  
This course is open to  
students who have  
achieved a grade 5 in  
GCSE PE  
or  
A grade 5 in biology

### Units studied in Year 12:

**Unit 1** - Factors affecting participation in physical activity and sport

**Unit 2** - Non-exam assessment: Practical performance in physical activity and sport

### Units studied in Year 13:

**Unit 1** - Factors affecting participation in physical activity and sport

**Unit 2** - Factors affecting optimal performance in physical activity and sport

**Unit 3** - Non-exam assessment: Practical performance in physical activity and sport

### Future Pathways:

This course will develop students' body awareness, teamwork, communication and leadership skills. Students who successfully complete this course will be prepared to study a degree in sport studies and business, sport psychology, sports education and special and inclusive education and sport and exercise science. Career pathways include sports scientist, physiotherapist or working for a national governing body.



## Physical Education Cambridge Technical

**Exam Board:**  
OCR

**Assessment:**  
External Assessment  
in June

**Entry Requirements:**  
This course is open to  
students who have  
achieved a grade 4 in  
GCSE PE

### Units studied in Year 12:

**Unit 1** - Body System and the Effect of Physical Activity

**Unit 2** - Sports Coaching and Activity Leadership

**Unit 3** - Sport Organisation and Development

**Unit 5** - Performance and Analysis in Sport and Science

**Unit 8** - Organisation of a Sports Event

### Units studied in Year 13:

**Unit 1** - Body System and the Effect of Physical Activity

**Unit 2** - Sports Coaching and Activity Leadership

**Unit 3** - Sport Organisation and Development

**Unit 5** - Performance and Analysis in Sport and Science

**Unit 8** - Organisation of a Sports Event

### Future Pathways:

This course will develop students' body awareness, teamwork, communication and leadership skills. Students who successfully complete this course will be prepared to study a degree in sport studies and business, sport psychology, sports education and special and inclusive education and sport and exercise science. Career pathways include sports scientist, physiotherapist or working for a national governing body.

**Kettering Science Academy's Sixth Form is committed to providing the most appropriate courses for our students.**

Courses on offer are subject to student numbers.

Course information and details of how to apply are available on our school website.

**“Leaders have an ambitious vision for students in the Sixth Form. They have put in place a curriculum that extends beyond academic study.”**

*Ofsted 2019*

**“Sixth Form students are positive role models to the younger pupils. They are a credit to the school”**

*Ofsted 2019*

**“Students appreciate the help and support that they receive. They particularly value the guidance they get when applying for future studies or training”**

*Ofsted 2019*



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