



Kettering  
science Academy

**BEING THE BEST  
YOU  
CAN BE**

Key Stage 4 Curriculum Booklet

2020-22

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## Introduction

The KS4 curriculum is the set of subjects your child will study in years 10 and 11. We believe that all students should study a full and broad curriculum, appropriate for their ability level, aspirations and interests. Some students will benefit from a full academic curriculum whereas others will benefit from taking vocational subjects alongside an academic core.

This booklet gives a list of all the courses we plan to offer at KSA for 2020-22. It contains a preference form which students should use to show which courses they would prefer to take. Please read the booklet and discuss the subjects with the relevant teachers before completing the form.

The Department of Education (DfE) puts subjects into three categories; Core, EBacc and other.

### Core subjects

The core academic subjects are English (Language and Literature), Mathematics, and Science (Biology, Chemistry and Physics, or Combined Science which counts as a double GCSE). At KSA all students take these subjects. Core Physical Education, Religious Education and Citizenship are also provided for all students as non-examined programmes.

### English Baccalaureate (EBacc) subjects

The English Baccalaureate (EBacc) is a set of GCSE subjects that keeps young people's options open for further study and future careers. According to the Department for Education,

*"The EBacc is made up of the subjects which the Russell Group says, at A Level, open more doors to more degrees..."*

*A study by the UCL Institute of Education shows that studying subjects included in the EBacc provides students with greater opportunities in further education and increases the likelihood that a pupil will stay on in full-time education. Sutton Trust research reveals that studying the EBacc can help improve a young person's performance in English and maths.*

*The government's ambition is to see 75% of pupils studying the EBacc subject combination at GCSE by 2022, and 90% by 2025." (DfE website)*

The subjects are:

- English Language and Literature
- Mathematics
- the Sciences
- Geography, History
- a language (see DfE website for further details)

At KSA we offer Geography, History, German and French. We also offer triple science (Biology, Chemistry and Physics) as well as Computer Science, which also counts as a science subject within the EBacc.

### Other Subjects

These include GCSEs such as Art and Design, Drama, Media and Photography as well as vocational subjects such as Health and Social Care and Construction. A full list of what we offer is given on the preference form, and details are contained in this booklet. At KSA we believe that students should take these subjects to match their interests and career aspirations as part of a broad and balanced curriculum.

All students at KSA take the core subjects plus **four others** as shown in the table below. Students need to give their preferences for these on the form at the back of this booklet.

Students taking a full academic curriculum will take at least **one humanities** subject (history or geography) and at least **one language** (french or german). They will have **two other** subjects to choose.

Some students will not be required to take a language. They will need to choose **one humanities subject** and three others. These three could include a language and another humanities subject.

Some students will be invited to take the Functional Skills course as one of the four, which supports their progress in key literacy and numeracy skills. They will have three other subjects, one of which will be a humanities subject.

**A letter is enclosed with this booklet with each student's individual information on this.**

Core Subjects				
GCSE English Language	GCSE Mathematics	GCSE Science (Combined Science or the three Separate Sciences)	Citizenship and Religious Education (non-examined - this is covered within the tutor time programme)	Core PE (non-examined)
GCSE English Literature				

1	2	3	4
History or Geography	French or German  (for most students)	A third course from the list in this booklet  (eg Triple Science, Computer Science, Fine Art)	A fourth course from the list in this booklet  (or the Functional skills course, by invitation)

**Please note:** some students will be invited, in the letter, to choose Triple Science and/or Computer Science. This is because of the high academic demand of these subjects. If you have not been invited but would like to be considered, please speak with Mr Stanger (Science) or Mr Duncan (Computer Science) – details are below in the relevant subject sections. *Being invited to apply does not automatically guarantee you a place.* Places in these groups are in high demand, and will be given to students who have demonstrated a high level of commitment and progress.

## Careers Guidance.

Careers information, advice and guidance (CEIAG) is provided by our dedicated careers advisor Julie Thompson who is based in the academy. She is available to offer help and support to students in conjunction with members of staff at all crucial transition points including Key Stage 3 into Key Stage 4, Post 16, Post 18, exam result and enrolment days.

Kettering Science Academy has a successful CEIAG strategy, which delivers a careers programme across all eight Gatsby Benchmarks (see [www.goodcareerguidance.org.uk](http://www.goodcareerguidance.org.uk) for details) to help facilitate the highest number of students progressing on to positive destinations.

The following websites are also recommended for general guidance in this area, and it may be useful to use this information alongside the information in this booklet and at the evening event.

## Useful websites

	<p><u>The National Careers Service</u> provides information, advice and guidance to help you make decisions on learning, training and work opportunities. The service offers confidential and impartial advice. This is supported by qualified careers advisers.</p> <p>The National Careers Service website aims to:</p> <ul style="list-style-type: none"><li>• help you with careers decisions and planning</li><li>• support you in reviewing your skills and abilities and develop new goals</li><li>• motivate you to implement your plan of action</li><li>• enable you to make the best use of high quality career related tools.</li></ul>
	<p><u>Careersbox</u> is a free online library of careers related film, news and information. As the preferred digital new media partner to the Institute of Career Guidance, the largest careers body in the UK, Careersbox aim is to deliver a new way for students to explore their skills and career options.</p>
	<p><u>Plotr</u> is a website created to help 11-24 year olds discover and explore careers they'll love.</p> <p>It's built around <u>the Game</u> which uncovers careers matched to their skills, interests and personality.</p>
	<p><u>LifeSkills</u>, created with Barclays, is a free, curriculum-linked programme, developed with teachers to help improve the skills and employability of young people in the UK.</p>
	<p><u>icould</u> has a range of video clips showing real people talking about their jobs and careers.</p>

The logo for Careerpilot, featuring the word "Careerpilot" in a bold, sans-serif font. The letters "C", "a", "r", "e", "e", "r", "p", "i", "l", "o", "t" are in a dark blue color, while the "p" is a lighter blue. The logo is set against a light green rectangular background.

Plan your study & work. Your choices at 14, 16 and 18, explore different job sectors and how you can study and work at the same time - even to university level.



Success at School is the place for young people to explore careers, get the lowdown on top employers, and search for the latest jobs, courses and advice.



The study guide section within youthspace contains a range of information including help on making options choices in Year 9, post 16 options, and getting into higher education.



Central Government's dedicated apprenticeship website has a whole range of information to help young people decide if Apprenticeships are the right route for them. You can also search for apprenticeship vacancies.

## GCSE English Language (Core)

Faculty:	Communications	Exam Board:	AQA	Assessment:	100% external assessment
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### Description:

This course is designed to equip students of all abilities with the skills needed to read, understand and analyse a wide range of different texts covering the 19th, 20th and 21st century time periods. The course is focused on learning to write clearly, coherently and accurately using a range of vocabulary and sentence structures. Students will learn to engage with a range of fiction and non-fiction texts and develop the knowledge and skills needed to comment on their structure, language and impact on the reader. In addition, students will use these texts as starting points in their own writing journeys through description, narration and argument.

### Progression:

A pass in English is required for many post-16 courses.

This qualification prepares students to study A level English Language and other subjects such as History, which are essay focused. The skills acquired through the completion of this course often lead towards a career in teaching, journalism, law, marketing, management or media.

**For further details contact Miss Joanne Evans, Head of English ([jevans@ketteringscienceacademy.org](mailto:jevans@ketteringscienceacademy.org))**

## GCSE English Literature (Core)

Faculty:	Communications	Exam Board:	AQA	Assessment:	100% external assessment
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### Description:

This course encourages students to engage with a range of both classic and modern fiction. This course is focused on exploring settings, characters, themes and ideas from 19th century fiction, Shakespeare, modern drama and an exam-board prescribed poetry anthology. Students will learn new subject terminology together with the contexts in which texts are set, which will develop reading, analytical skills and broaden literary perspectives.

### Progression:

This qualification prepares students to study A level English Literature and other subjects such as History, which are essay focused. The skills acquired through the completion of this course often lead towards a career in teaching, journalism, law, marketing, management or media.

**For further details contact Miss Joanne Evans, Head of English ([jevans@ketteringscienceacademy.org](mailto:jevans@ketteringscienceacademy.org))**

## GCSE Mathematics (Core)

Faculty:	Mathematics	Exam Board:	Edexcel	Assessment:	100% external assessment
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### Description:

The course content of GCSE Mathematics is made up of: Statistics and Probability, Number and Algebra, Geometry and Measures, Ratio, Proportion and Rates of Change.

This GCSE gives students the opportunity to develop the ability to:

- acquire and use problem solving strategies
- select and apply mathematical techniques and methods in mathematical, every day and real world situations
- interpret and communicate mathematical information in a variety of forms appropriate to the information and context and be able to draw suitable conclusions.

The course is assessed through three exams; one non-calculator paper and two calculator papers, each with a duration of 90 minutes and a total of 80 marks.

There are two tiers of entry; foundation (grades 1-5) and higher (grades 4-9).

If a student achieves a grade 4 or 5 these are viewed as a 'standard' or 'strong' pass, regardless of which tier they have been achieved on.

### Progression:

A pass in mathematics is required for many post-16 courses.

This qualification prepares students to study a wide variety of Level 3 qualifications including A Level Mathematics and Further Mathematics as well as the Level 3 Certificate in Mathematical Studies ('core maths'). The qualification also prepares students for any other level 3 course requiring mathematical skills such as Chemistry, Physics, Psychology and Design Technology. The skills acquired through the completion of this course often lead towards a career in engineering, accountancy, computer science or economics.

**For further details contact Mrs Grace Horne, Head of Mathematics  
(ghorne@ketteringscienceacademy.org)**



## GCSE Science (Core)

All students will follow either the **Combined Science** or **Triple Science** course. Students taking the Combined Science course will gain two GCSE grades in Science. Those taking the Triple Science route will achieve three separate GCSE grades, one for each of the subjects: Biology, Chemistry and Physics. **Please see the separate section below for details of the triple science course.**

## Combined Science GCSEs

Faculty:	Science	Exam Board:	Edexcel	Assessment:	100% external assessment
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### Description:

This course allows students to study key topics in Biology, Chemistry and Physics. Students will sit six exams, each worth 16.7% of their overall grade. This will build upon work covered at Key Stage 3. Practical work is embedded into the course and will equip students with the necessary scientific investigative techniques.

### Progression:

This qualification allows students to continue on to study A level Biology, Chemistry and/or Physics. The skills acquired through the completion of this course often lead to a career as a Government scientist, healthcare scientist, science technician, biologist, biomedical scientist, doctor, nurse, paramedic, neurologist, botanist, teacher, microbiologist, medical laboratory scientist, astronomer, oceanographer, palaeontologist, pathologist, radiographer, geographer, geologist, chemist or pharmacist.

**For further details contact Mr Gavin Stanger, Head of Science ([gstanger@ketteringscienceacademy.org](mailto:gstanger@ketteringscienceacademy.org))**

## PE (non examined) (Core)

All students will be able to access a variety of sports to engage in a healthy lifestyle, including football, basketball, fitness and dance, during their core P.E. time. A range of activities are presented to each student so they can select and participate in an activity of their choice. This develops engagement and allows students to gain skills, develop teamwork and enjoy maintaining an active lifestyle into adulthood.

## Citizenship and Religious Education programme (Core)

All students will continue with their studies in Citizenship through the structured tutor programme and assemblies. Students will study a range of global, national and local issues, such as Fairtrade, human trafficking, domestic violence or local community issues in Kettering. They will also cover topics such as identity and community in the UK, fairness and justice in decision-making and the law, democracy and voting, and the UK's relationship with Europe and the United Nations.

This programme covers Religious Education and will include a range of issues, including Philosophy and Ethics, during a structured tutor programme across Years 10 and 11.

## GCSE Geography

Faculty:	Humanities	Exam Board:	AQA	Assessment:	100% external assessment
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**Description:** The subject content is split into four units: Unit 1: Living with the physical environment, which includes: The challenge of natural hazards, the living world and physical landscapes in the UK. Unit 2: Challenges in the human environment includes the following: Urban issues and challenges, the changing economic world and the challenge of resource management. Unit 3: Geographical applications and Unit 4: Geographical skills will also include the fieldwork element which includes two day trips to Leicester and Hunstanton.

Students take three external examinations at the end of year 11.

**Progression:** Students will gain the skills and experience to progress onto A-level and beyond. Biology, Geology, Environmental Science, Government & Politics, Economics, Travel & Tourism and Leisure & Recreation all have close links with the material in this GCSE. Alternatively, you may wish to consider a work-related course. Employment opportunities where your geographical skills will be particularly valued include journalism and media, the law, engineering, business management, ICT, environmental management, teaching, economic planning, marketing, leisure, recreation and tourism.

**For further details contact Mrs Natasha Franklin, Head of Humanities**  
([nfranklin@ketteringscienceacademy.org](mailto:nfranklin@ketteringscienceacademy.org))

## GCSE History

Faculty:	Humanities	Exam Board:	AQA	Assessment:	100% external assessment
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### **Description:**

This course comprises the following elements: Germany, 1890–1945: Democracy and dictatorship (Period Study [paper 1]), Conflict and tension in Asia, 1950-1975 (Wider World Study [Paper 1]), Britain: Health and the people: c1000 to the present day (Thematic Study [Paper 2]) and Norman England, c1066-c1100 (British Depth Study [Paper 2])

### **Progression:**

This qualification prepares students to study A level History, but whether you want to get a job straight after leaving school, go on to a training scheme, apprenticeship, further education or higher (degree level) education you will find History useful.

The skills acquired through the completion of this course often lead to a career in business, law, archaeology, politics, accountancy, teaching and specific history-based jobs such as museum curator or archivist.

**For further details contact Mrs Natasha Franklin, Head of Humanities**  
([nfranklin@ketteringscienceacademy.org](mailto:nfranklin@ketteringscienceacademy.org))

## GCSE French

Faculty:	Languages	Exam Board:	Edexcel	Assessment:	100% external assessment
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### Description:

This course allows students to develop their reading, writing, speaking and listening skills in French. Students study five themes drawing on their own experiences, and those of others in France, and French-speaking countries. The themes are:

- Identity and Culture
- Local Area, travel and tourism
- School
- Future Aspirations, study and work
- The international and global dimension

Students are assessed on these themes at the end of Y11 in the four skill areas of reading, writing, speaking and listening. Each exam is worth 25%.

### Progression:

Languages are a skill for life and are highly valued by employers. Students who study a language have a range of career opportunities in a wide variety of sectors including: travel and tourism, sales, international charity work and human rights, engineering, translation, research, teaching and business.

As 75% of the world's population do not speak English the study of a foreign language presents students with a great opportunity in the modern fast-paced world.

**For further details contact Mrs Rosemary Reid, Head of Languages ([rreid@ketteringscienceacademy.org](mailto:rreid@ketteringscienceacademy.org))**

## GCSE German

Faculty:	Languages	Exam Board:	Edexcel	Assessment:	100% external assessment
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### Description:

This course allows students to develop their reading, writing, speaking and listening skills in German. Students study five themes drawing on their own experiences, and those of others in Germany, and German-speaking countries. The themes are:

- Identity and Culture
- Local Area, travel and tourism
- School
- Future Aspirations, study and work
- The international and global dimension

Students are assessed on these themes at the end of Y11 in the four skill areas of reading, writing, speaking and listening. Each exam is worth 25%.

### Progression:

Languages are a skill for life and are highly valued by employers. Students who study a language have a range of career opportunities in a wide variety of sectors including: travel and tourism, sales, international charity work and human rights, engineering, translation, research, teaching and business.

As 75% of the world's population do not speak English the study of a foreign language presents students with a great opportunity in the modern fast-paced world.

**For further details contact Mrs Rosemary Reid, Head of Languages ([rreid@ketteringscienceacademy.org](mailto:rreid@ketteringscienceacademy.org))**

## Triple Science GCSEs

Faculty:	Science	Exam Board:	Edexcel	Assessment:	100% external assessment
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Taking the triple science course means gaining three GCSEs, in Biology, Chemistry and Physics, instead of the Combined Science double GCSE.

Due to the academic demand of these subjects students must have evidence (in their reports, based on formal assessments) that they are capable of achieving a grade 5 in Science.

### **Description:**

On this course students cover all of the content of the Combined Science course as well as additional content, which allows for a deeper understanding of the underpinning science. The additional modules cover higher-level work and are designed to bridge the gap between GCSE and A level. Students will sit two exams in each subject, each worth 50% of their overall grade in that subject, culminating in being awarded three GCSEs. Practical work is embedded into the course and will equip students with the necessary scientific investigative techniques.

### **Progression:**

This course prepares students to study A level Biology, Chemistry and/or Physics. The skills acquired through the completion of this course often lead to a career as a Government scientist, healthcare scientist, science technician, biologist, biomedical scientist, doctor, nurse, paramedic, neurologist, botanist, teacher, microbiologist, medical laboratory scientist, astronomer, oceanographer, palaeontologist, pathologist, radiographer, geographer, geologist, chemist or pharmacist.

**For further details contact Mr Gavin Stanger, Head of Science ([gstanger@ketteringscienceacademy.org](mailto:gstanger@ketteringscienceacademy.org))**

## GCSE Computer Science

Faculty:	Business & IT	Exam Board:	OCR	Assessment:	100% external assessment
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### Description:

This course allows students to gain an in-depth understanding of how computer technology works. The course covers the theory of computer science and gives students the opportunity to program in Python.

To take part in this course students must have evidence (in their reports, based on formal assessments) that they are capable of achieving a grade 5 or better in Mathematics, due to the high level of mathematical demand. Please discuss this with Mr Duncan if needed.

Units include:

- Computer Systems (assessed by exam - 50% of final mark)
- Computational Thinking (assessed by exam - 50% of final mark)

### Progression:

This qualification prepares students to study A level Computer Science. The skills acquired through the completion of this course often lead towards a career in the fields of computing, engineering, financial and resource management, science or medicine.

**For further details contact Mr Daniel Duncan, Head of ICT and Business  
([dduncan@ketteringscienceacademy.org](mailto:dduncan@ketteringscienceacademy.org))**

## GCSE Business Studies

Faculty:	Business & IT	Exam Board:	OCR	Assessment:	100% external assessment
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### Description:

This course gives students an increased understanding of the business sector, allowing them to engage in contemporary issues in business at a local, national and global level.

Units include:

- Business Activity, Marketing and People (assessed by exam - 50% of total GCSE)
- Operations, Finance and Influence in business (assessed by exam - 50% of total GCSE)

### Progression:

This qualification prepares students to study A level Business. The skills acquired through the completion of this course often lead to careers across many industries, including accountancy, banking, insurance underwriter, management consultant, operational researcher, human resources, logistics and distribution, marketing, retail or sales.

**For further details contact Mr Danny Duncan, Head of Business & IT**

**[dduncan@ketteringscienceacademy.org](mailto:dduncan@ketteringscienceacademy.org)**

## VCERT Enterprise

Faculty:	Business & IT	Exam Board:	NCFE	Assessment:	60% coursework 40% external assessment
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### Description:

This BTEC level 2 Award in Enterprise Skills course gives students the opportunity to develop skills through vocational contexts by studying the knowledge, behaviours and skills related to researching, setting up, running and reviewing an enterprise.

Topics include:

- Introduction to business and enterprise (coursework)
- Marketing for business and enterprise (external exam)
- Finance for business and enterprise (coursework)
- Plan, develop and participate in a business or enterprise project (coursework)

**Progression:** This qualification prepares students to study Level 3 business courses including A levels. The skills acquired on this course can lead towards a career in many of the diverse areas of business, including roles in specialist areas such as marketing, finance, customer service or human resources in large businesses, or a more generic role in a small, local business.

**Extra-curricular:** Students will have the opportunity to take part in the Tycoon enterprise completion as part of the Peter Jones (Dragons' Den) Foundation.

**For further details contact Mr Danny Duncan, Head of Business & IT**

**[dduncan@ketteringscienceacademy.org](mailto:dduncan@ketteringscienceacademy.org)**

## ICT (Cambridge National)

Faculty:	Business & IT	Exam Board:	OCR	Assessment:	50% coursework 50% external assessment
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### **Description:**

This course allows students to develop a background in digital literacy. Students will explore ICT theory with a particular focus on how we build ICT systems from analysis through to testing and evaluation. Students will also complete a practical project in which they build a solution to a problem set by the exam board. Students will have to design, build, test and document their solution.

### **Progression:**

This qualification prepares students to study further Cambridge Technical levels. The skills acquired through the completion of this course often lead to a career in computing, engineering, financial and resource management, science or medicine.

**For further details contact Mr Danny Duncan, Head of Business & IT  
([dduncan@ketteringscienceacademy.org](mailto:dduncan@ketteringscienceacademy.org))**



## BTEC Performing Arts (Drama/Dance)

Faculty:	Performing Arts	Exam Board:	Pearson (Edexcel)	Assessment:	60% internal assessment 40% external assessment
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### Description:

The **BTEC Technical Award in Performing Arts** course covers both acting and dancing. During the first unit, students will explore at least three examples of performance and learn the techniques used to create the practical performance. Students will also explore the role of the actor/dancer, director/choreographer and other professions linked to the world of performing arts. During the second unit, students will explore different acting and dancing skills, building on their individual performance and skill set as an actor and dancer in order to progress into the profession. The final unit is an examined practical work. Students will be given a brief from the exam board and as a response, students must create an original piece of drama or dance performance to present in a workshop performance.

### Progression:

The qualification prepares students to study BTEC Level 3 courses in acting or dance as well as A level Drama and Theatre. It often leads to a career as an actor/actress, dancer, stage manager, arts administrator, choreographer, drama teacher, television production assistant or radio presenter.

**For details, contact Miss Julia Mallard, Head of Performing Arts ([jmallard@ketteringscienceacademy.org](mailto:jmallard@ketteringscienceacademy.org))**

## GCSE Drama

Faculty:	Performing Arts	Exam Board:	Pearson (Edexcel)	Assessment:	40% coursework and performance 20% performance to visiting examiner 40% external assessment
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### Description:

In Unit 1, 'Devising', students will explore a range of stimuli in their lessons and develop a performance in response to the material provided. Students will perform their final piece to an audience and complete coursework alongside this. Unit 2 is 'Performance of Play Texts', where students will study a play text in order to create two performances to a visiting examiner (a combination of monologue, duologue or group performance). Unit 3 is a written exam: students will answer questions on a set text, as a director, actor and designer as well as analysing a live drama performance they have seen as part of the course.

### Progression:

This qualification prepares students for A level Drama and Theatre. It often leads to a career as an actor/actress, stage manager, arts administrator, drama teacher, television production assistant or radio presenter. The course inevitably covers all sorts of transferable skills that will be useful throughout life: communication, presentation/public speaking, group and leadership skills, problem solving, time management, initiative and the ability to work to a deadline and get it right first time.

**For details, contact Miss Julia Mallard, Head of Performing Arts ([jmallard@ketteringscienceacademy.org](mailto:jmallard@ketteringscienceacademy.org))**

## BTEC Music

Faculty:	Performing Arts	Exam Board:	Edexcel (Pearson)	Assessment:	75% internal assessment 25% external assessment
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**Description:** This well-rounded BTEC Music course enables students to develop their understanding of the Music Industry. This course allows students to develop musicality skills, as well as a deep understanding of how the Music profession is built and developed. Students will be able to develop solo and group performance skills in conjunction with music promotion and publication.

### Compulsory Units

#### Unit 1 – The Music Industry

Understanding different organisations and job roles that form part of the Music Industry.  
One hour written exam paper (50 marks)

#### Unit 2 – Managing a Music Product

Management, Delivery and Promotion of a Music product (eg a Music show or a CD)  
Coursework Component (Portfolio, internal assessment)

#### Optional Units – 2 must be completed

Two of the following will be taken by the group: Live Sound / Music Composition / Music Performance / Music Recording / Music Sequencing  
Coursework Component (Portfolio, internal assessment)

#### Progression:

Students who follow this course could go on to study Music or Music Technology courses in the Sixth form or College. Students who study this course might be interested in the following careers:

Musician – Music Therapy – Private Music Teacher – Music Teacher (Secondary School) – Sound Technician (in broadcasting, film, video) – Arts Administrator – Broadcast Engineer – Community Arts Worker – Events Management – Radio Producer – Radio Broadcast Assistant – Theatre Stage Management

**For further details contact Miss Julia Mallard, Head of Performing Arts  
([jmallard@ketterignscienceacademy.org](mailto:jmallard@ketterignscienceacademy.org))**

## Fine Art GCSE

Faculty:	Art Design & Technology	Exam Board:	Edexcel (Pearson)	Assessment:	60% portfolio 40% external set coursework
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### Description:

This 'Fine Art' GCSE is one of the 'Art and Design' pathways from Pearson. Students will only take one of these 'Art and Design' subjects, although they can express a preference for any number, in their order of preference.

Students will gain the knowledge, understanding and skills used within Fine Art. The work is not limited to one area of study and students could develop work further in at least one of the following areas:

- **Drawing** - The use of a range of drawing materials, media and techniques such as graphite, pastel, charcoal, ink, chalk, digital drawing applications and a range of drawing surfaces.
- **Mixed media** - The combination of a range of mixed media materials and techniques such as wet and dry media, collage, objects, textiles, two- and three-dimensional elements, digital and nondigital applications.
- **Printmaking** - The use of a variety of materials, media and techniques such as linoleum, screen, intaglio, relief, lithography, drypoint, etching and monoprint, using a range of inks and printing surfaces.
- **Painting** - The use of a range of painting materials, tools and techniques such as gouache, watercolour, acrylic, oil, dyes, brushes, digital painting applications and a range of painting surfaces.
- **Sculpture** - The use of a range of sculpting materials, tools and techniques such as carving, modelling, joining, constructing and reducing, and transposing two-dimensional images into three-dimensional forms.

The course is designed to encompass four areas of assessment:

- Contextual understanding – looking at the wider artistic world
- Creative making – working in a variety of media
- Reflective recording – recording ideas, observations and insights
- Personal presentation – presenting a personal, informed and meaningful response

### Progression:

The qualification prepares students to study GCE Fine Art, a suitable foundation course or specialist degree course such as Illustration. The skills acquired through the completion of this course could lead towards a wide range of careers in the art and design field, including fine art, new media, games development, games technologies and more.

**For further details contact Mrs Zoe Moore, Head of Art and Design Technology**  
**([zmoore@ketteringscienceacademy.org](mailto:zmoore@ketteringscienceacademy.org))**

## GCSE Graphic Communication

Faculty:	Art Design & Technology	Exam Board:	Edexcel (Pearson)	Assessment:	60% portfolio 40% coursework
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### Description:

This 'Graphic Communication' GCSE is one of the 'Art and Design' pathways from Pearson. Students will only take one of these 'Art and Design' subjects, although they can express a preference for any number, in their order of preference.

Graphic Communication introduces students to a visual way of conveying information, ideas and emotions, using a range of graphic media, processes, techniques and elements such as colour, icons, images, typography and photographs. Graphic Design practitioners may work within a small team environment or work as freelance practitioners. They may be responsible for a particular aspect of the Design or Production process or for the entire design cycle. Students could develop work in at least one of the following areas of study:

- **Advertising** - The use of advertising to convey information for clients and audiences that promotes corporate identity.
- **Communication graphics** - The use of communication through graphics to develop solutions for worldwide identity.
- **Design for print** - The use of design-based solutions in media for use in creating visual and written material for public distribution.
- **Illustration** - The use of illustration and narrative to communicate factual, fictional and/or technical ideas for a particular purpose or audience.
- **Interactive design** - including web, app and game design
- **Package design** - The functional design of 3D material to protect, promote and communicate brand identity for a range of products and purposes.
- **Typography** - The arrangement and manipulation of type traditional and non-traditional to communicate ideas and create visual interest.

The course is designed to encompass four areas of assessment:

- Contextual understanding – looking at the wider artistic world
- Creative making – working in a variety of media
- Reflective recording – recording ideas, observations and insights
- Personal presentation – presenting a personal, informed and meaningful response

### Progression:

The qualification prepares students to study a GCE in an Art and Design based course, a suitable foundation course or specialist degree course such as Illustration. The skills acquired through the completion of this course could lead towards a wide range of careers in the art and design field, including graphic designer, publishing, games development, packaging designer and brand designer.

**For further details contact Mrs Zoe Moore, Head of Art and Design Technology**  
([zmoore@ketteringscienceacademy.org](mailto:zmoore@ketteringscienceacademy.org))

## GCSE Textile Design

Faculty:	Art Design & Technology	Exam Board:	Edexcel (Pearson)	Assessment:	60% portfolio 40% coursework
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### Description:

This 'Textile Design' GCSE is one of the 'Art and Design' pathways from Pearson. Students will only take one of these 'Art and Design' subjects, although they can express a preference for any number, in their order of preference.

Textile Design is a versatile practice that involves the creation, selection, manipulation and application of a range of materials such as fibres, yarns and fabrics, and processes such as weaving, knitting, stitching and printing to create designs and products. Textile designers work in multi-disciplinary ways to create ideas, materials and techniques for different applications, and play an important role in the world of fashion, theatre, performance and retail. Students could develop work in at least one of the following areas of study:

- **Constructed textiles** - Innovative manipulation and reworking of threads and fabrics by experimenting with a range of constructed textiles materials, tools and techniques
- **Digital textiles** - The design of textiles, employing digital techniques for use in creative and commercial industries such as fabric, carpet and wallpaper design.
- **Dyed fabrics** - The use of natural and synthetic dyes. The use of resist and applied techniques with natural and man-made fibres.
- **Printed fabrics** - to create bespoke pieces and haute couture.
- **Fashion design** - The design and creation of clothing and fashion for creative and commercial audiences, clients and consumers.
- **Soft furnishings** - The design of constructed textiles for use in furnished interiors.
- **Stitched and/or embellished textiles** - The design of stitched and/or embellished textiles for use in creative and commercial industries such as fashion, costume and interiors.

The course is designed to encompass four areas of assessment:

- Contextual understanding – looking at the wider artistic world
- Creative making – working in a variety of media
- Reflective recording – recording ideas, observations and insights
- Personal presentation – presenting a personal, informed and meaningful response

### Progression:

The qualification prepares students to study a GCE in an Art and Design based course, a suitable foundation course or specialist degree course such as Fashion Marketing. The skills acquired through the completion of this course could lead towards a wide range of careers in the art and design field, including Fashion Design, Merchandising, Garment technologist, Costume Design, Styling.

**For further details contact Mrs Zoe Moore, Head of Art and Design Technology**  
([zmoore@ketteringscienceacademy.org](mailto:zmoore@ketteringscienceacademy.org))

## BTEC Construction and the Built Environment

Faculty:	Art Design & Technology	Exam Board:	Edexcel (Pearson)	Assessment:	3 units internal assessment, 1 unit external assessment
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### Description:

The level 1-2 'BTEC First Award in Construction and the Built Environment' course enables students to study construction and the built environment, giving them the opportunity to learn about one of the most important sectors of the UK economy. It is aimed at any student who would like to find out more about construction and the built environment with a practical focus on carpentry and model making skills.

**You will study three mandatory units, covering the fundamental knowledge, skills and understanding required in construction technology and design.**

- Unit 1 – Construction Technology (external component)
- Unit 2 – Scientific and Mathematical application for construction
- Unit 3 – Construction and Design
- Unit 5 – Exploring Carpentry, joinery principles and techniques.

### Progression:

This qualification would be suited to students that might want to follow an apprenticeship/career in the building industry including; bricklaying, carpentry, plumbing, plastering and decorating.

This is also an ideal course for those students who may wish to pursue further education or undergraduate courses in order to become Architects, Engineers, Civil Engineers.

**For further details, contact Mr Sean Freeman, Construction teacher ([sfreeman@ketteringscienceacademy.org](mailto:sfreeman@ketteringscienceacademy.org))**

## GCSE Photography

Faculty:	Art Design & Technology	Exam Board:	Edexcel (Pearson)	Assessment:	60% portfolio 40% external set coursework
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### Description:

This 'Photography' GCSE is one of the 'Art and Design' pathways from Pearson, and can be taken alongside one of the others. Students can express a preference for any number of these courses, in their order of preference.

Photography may be defined as the creative journey through the process of lens- and light-based media. This could include work created using film, video, digital imaging or light sensitive materials. With the developments of new affordable lens-based technologies, students should attempt to use the photographic mediums to explore and create a body of work, which develops and refines both the process and the concept. Students could develop work in at least one of the following areas of study:

- **Documentary photography** - The use of the photographic process to provide a narrative of events and/or situations.
- **Photo-journalism** - The use of the photographic process to record events as they happen, and the use of a range of photo-journalism materials, tools and techniques.
- **Studio photography** - The use of a formal studio setting to control the environment for a variety of subject matters such as portraiture and still life.
- **Location photography** - The use of subject matter found or placed to manipulate the formal elements within an existing environment.
- **Experimental imagery** - The control of light and photographic processes to create non-traditional photographic outcomes.
- **Moving image: film, video and animation** - The recording and use of moving image to communicate a visual narrative.

The course is designed to encompass four areas of assessment:

- Contextual understanding – looking at the wider artistic world
- Creative making – working in a variety of media
- Reflective recording – recording ideas, observations and insights
- Personal presentation – presenting a personal, informed and meaningful response

### Progression:

The qualification prepares students to study a GCE in an Art and Design based course, a suitable foundation course or specialist degree course such as Animation. The skills acquired through the completion of this course could lead towards a wide range of careers in the art and design field, including Photography, Publishing, Film, Photojournalism.

**For further details contact Mrs Zoe Moore, Head of Art and Design Technology**  
([zmoore@ketteringscienceacademy.org](mailto:zmoore@ketteringscienceacademy.org))

## BTEC Health and Social Care

Faculty:	PE	Exam Board:	Pearson (Edexcel)	Assessment:	75% coursework 25% external assessment
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### **Description:**

This course gives students an opportunity to develop skills, techniques and attributes essential for successful performance in working life. Students will investigate the role of effective communication within the health and social care sector, as well as explore the importance of health and safety and human development.

### **Progression:**

This course prepares students to study BTEC Level 3 Health and Social care Subsidiary Diploma. The skills acquired through the completion of this course often lead towards a career in nursing, occupational therapy, physiotherapy, midwifery or residential care management.

**For further details contact Mr Lee Haywood ([lhaywood@ketteringscienceacademy.org](mailto:lhaywood@ketteringscienceacademy.org))**



## Hospitality and Catering (Level 1/2 Vocational Award)

Faculty:	Art Design & Technology	Exam Board:	WJEC	Assessment:	60% internal assessment 40% external assessment
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### Description:

The WJEC 'level 1-2 Vocational Award in Hospitality and Catering' course concentrates on the hospitality and catering industry. You will develop the knowledge and understanding related to a range of hospitality and catering providers; how they operate and what they have to take into account to be successful. You will have the opportunity to learn about issues related to nutrition and food safety and how they affect successful hospitality and catering operations. In this qualification, you will also develop food preparation and cooking skills as well as transferable skills of problem solving, organisation and time management.

### You will learn about the hospitality and catering industry by:

- Completing lots of practical work to learn new skills with practical lessons.
- Learning the theory behind how the industry works

### ASSESSMENT:

**Unit 1 (40%): The Hospitality and Catering Industry** will be externally assessed with an examination that lasts 90 minutes. You will be graded as follows:

*Grading:* Level 1 Pass, Level 2 Pass, Level 2 Merit, Level 2 Distinction

**Unit 2 (60%): Hospitality and Catering in Action** is internally assessed:

This involves you completing a piece of controlled assessment in school under examination conditions. You will be set a task by WJEC and will have to safely plan, prepare, cook and present dishes to satisfy the task. This unit also involves a high level of course work

### CAREER OPPORTUNITIES:

Chef, sports science, dietician, food journalism, product development, home economist, events management, hospitality, front of house, conference management, buyer, production manager, public relations, hygiene control, National Health Service, health promotion, technical management, food quality, food preparation and retail.

**For more information please speak to Mrs Zoe Moore, Head of Art and Design Technology  
([zmoore@ketteringscienceacademy.org](mailto:zmoore@ketteringscienceacademy.org))**

## GCSE Media Studies

Faculty:	Communications	Exam Board:	Eduqas	Assessment:	70% external assessment 30% internal assessment
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### Description:

This course allows students to explore how the media plays a central role in contemporary society and culture in shaping our perceptions of the world through the representations, viewpoints and messages they offer. Students will complete two exam papers, which involve studying both set texts and unseen texts while analysing: media language, audiences, industry, representation and the historical and political contexts surrounding specific texts.

The texts that are studied are set by the exam board, but every year this includes the study of:

advertising and marketing • film • magazines • music video and online, social and participatory media studied through a single music topic • newspapers • radio • television • video games.

Students will also need to be creative as they have to make their own media texts for their practical production brief that focuses on moving image, print media or e-media.

### Progression:

This qualification prepares students to study A level Media. The skills acquired through the completion of this course often lead to careers in journalism, film, media, marketing or production.

**For further details contact Miss Joanne Evans, Head of Media ([jevans@ketteringsciencacademy.org](mailto:jevans@ketteringsciencacademy.org))**

## GCSE Religious Studies

Faculty:	Humanities	Exam Board:	AQA	Assessment:	100% external assessment
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**Description:** Pupils will consider different beliefs and attitudes to religious and non-religious issues in contemporary British society. The religious traditions of Great Britain are, in the main, Christian, and that are diverse, including non-religious beliefs such as atheism and humanism. The course will include two units of study which are: Unit 1 The study of religions: beliefs, teachings and practices in which you will study Christianity and Buddhism and Unit 2 Religious, philosophical and ethical studies.

**Progression:** Careers that look for Religious Studies include; teaching, retail, journalism, armed forces, police force, prison and probation services, social work, solicitors and lawyers and local government and councils.

**For further details contact Mrs Gillian Denis ([gdenis@ketteringscienceacademy.org](mailto:gdenis@ketteringscienceacademy.org))**

## Cambridge National in Sports Science

Faculty:	PE	Exam Board:	AQA	Assessment:	100% external assessment
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### Description:

This course takes an engaging, practical and inspiring approach to learning and assessment. The course provides students with a broad knowledge and understanding of the science behind sport, from gaining an understanding of the psychology behind performance, how to train and prepare for sport and how to look after your body to enable a higher level of sports performance.

Units include: Reducing the risk of sports injuries (1 hour 60 mark paper), Applying the principles of training (written assessment), Sports Psychology (written assessment) and sports nutrition (written assessment)

### Progression:

This qualification prepares students to study A level Physical Education or BTEC Level 3 Sport. The skills acquired through the completion of this course often lead to careers as a PE teacher, physiotherapist, chiropractor, fitness instructor/trainer, further education lecturer, sports, psychologist, sports nutritionist, sports journalist or coach.

**For further details contact Mr Lee Haywood, Head of Physical Education**  
([lhaywood@ketteringscienceacademy.org](mailto:lhaywood@ketteringscienceacademy.org))

## Cambridge National in Sport Studies

Faculty:	PE	Exam Board:	OCR	Assessment:	100% external assessment
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### Description:

This course takes an engaging, practical and inspiring approach to learning and assessment. The course provides students with a broad knowledge and understanding of different aspects of sports studies, from looking at contemporary issues in sport and the relationship between sport and the media to developing the practical skills essential for progression into the sports industry.

Units include: Contemporary issues (1 hour 60 mark paper), Developing sports skills (written assessment), Sports leadership (written assessment) and Sport and the media (written assessment).

### Progression:

This qualification prepares students to study A level Physical Education or BTEC Level 3 Sport. The skills acquired through the completion of this course often lead to careers as a PE teacher, physiotherapist, chiropractor, fitness instructor/trainer, further education lecturer, sports, psychologist, sports nutritionist, sports journalist or coach.

**For further details contact Mr Lee Haywood, Head of Physical Education**  
([lhaywood@ketteringscienceacademy.org](mailto:lhaywood@ketteringscienceacademy.org))

## Functional Skills (invitation only)

Faculty:	SEND	Exam Board:	AQA and Prince's Trust	Qualification:	Functional skills and Prince's Trust Awards
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### Description:

The Prince's Trust course is an invitation only option for students who may need further targeted support with English and Mathematics throughout Key Stage 4.

This course is run by and managed by the SEN team.

Across year 10 and 11 students will have one lesson per week on English functional skills, one lesson on Maths functional skills, and one lesson on the Prince's Trust course (level 1).

**For further details contact Miss Kayleigh Incles, SENCO ([kincles@ketteringscienceacademy.org](mailto:kincles@ketteringscienceacademy.org))**

## Guidance on completing the preference form.

**Please indicate the rank order of preference from 1 to 10:** put '1' for your first choice, and continue up to 10. Remember that some courses may not run if demand is very low. If your favourite subjects do not run, we need to know your other choices.

**EBacc humanities subjects:** all students take either Geography or History, and can take both. Please use your preferences to show which is preferred. If you do not, one will be selected for you.

**Language subjects:** the majority of students will take a language subject, either French or German. Please refer to your individual letter for further guidance.

For **Computer Science and Triple Science**, please see the requirements for these courses in this booklet, and your letter.

For **Business** subjects (Business Studies and Enterprise): You can only take one of these courses, as the content is similar. However, you can give both as preferences. For example if you want Business GCSE, but Enterprise BTEC might be a good alternative for you, you could put Business as 1 and Enterprise as 2.

**Performing Arts** subjects (Performing Arts and Drama): Although you can only take one of these, you should give as many as you like as preferences. So if you put Drama as 3 and Performing Arts as 4, you will take Drama if it is available and Performing Arts if it is not.

For **Art and Design** subjects (Fine Art, Graphic Communication and Textiles). Although you can only take one of these, you should give as many as you like as preferences. So if you put Graphics as 3 and Textiles as 4, you will take Graphics if it is available and Textiles if it is not.

**PE subjects:** although you will only take either Sports Science or Sports Studies, you can give both as preferences. The lower number preference will be considered first. So if you put Sports Science as 3 and Sports Studies as 4, you will be considered for the course deemed most suitable for you.

**Please note** that all decisions might be affected by the withdrawal of a course. For example if you have put Photography as preference 3 and it does not run, your preference 4 will become your new preference 3 and so on. Decisions will be based on these amended preferences.





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