

KSA SIXTH FORM

Achievement | Collaboration | Leadership



Kettering
science Academy



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Associate Principal



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Vice Principal for Sixth Form

WELCOME TO OUR ACADEMY

Dear students and parents,

At Kettering Science Academy Sixth Form we believe that the student is at the heart of everything we do and every decision we make. Our Sixth Form is the stepping stone to higher education and employment. To do this we create the conditions for achievement, actively promoting collaboration and developing the skills for leadership in students.

ACHIEVEMENT

Kettering Science Academy has a proven track record of success with an ever increasing number of students obtaining places at Oxbridge and Russell Group universities. Achievement for every learner comes through hard work and we believe in creating the conditions which enable every learner to be successful. By constructing a personalised timetable for every learner and a personal pathway we believe that we enable every Sixth Form student to achieve the very best they can.

COLLABORATION

Collaborative partnerships with Brooke Weston Academy, Corby Business Academy, local colleges, universities and other organisations enables us to offer a varied and rich curriculum including traditional A level courses in a range of subjects.

LEADERSHIP

In the Sixth Form we offer opportunities to develop leadership skills. These include Head Boy and Girl positions, NCS opportunities, Duke of Edinburgh's Award, Committee Leaders, Teaching assistants and opportunities to lead and organise community and charity events. The skills learnt through an active enrichment programme equip every learner for the world of work. By taking on responsibility the learners of today will become the leaders of tomorrow and at Kettering Science Academy Sixth Form we actively encourage responsible leadership.

ACHIEVEMENT

The 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 aspiration targets so students achieve their best and are proud of their achievements.

Many students go on to university, competing for top courses nationally. We now have a great track record of students going on to study at world-class universities including the University of Cambridge.

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 growth in addition to excellent academic success.

COLLABORATION

TUTOR SUPPORT

Sixth Form tutors are responsible for the students' academic progress. Their job is to support the students to achieve their targets, nurturing them along the way. The tutor will also assist the 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. Applications are available from student reception. Free school meals are still available to Sixth Form students. Apply at www.northamptonshire.gov.uk

PROGRESS CHECK

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 the progress so far. If necessary, intervention will be put in place to support students to achieve.

PARENTS' EVENINGS

Parents' evenings are arranged throughout the year where progress and attainment can be discussed with the student's form tutor and subject tutors.

CURRICULUM

A levels

- Most students study three or four subjects at A level
- A levels are now completely separate examinations from the AS level
- A levels are assessed at the end of Year 13
- Assessment is by examination and coursework

Applied /BTEC courses at levels 1, 2 and 3 are offered at local colleges

LEADERSHIP

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**

COMMITTEES

These are made up of all Year 12 and 13 students. The aim of the committees is to allow students to take on a leadership role and have ownership of their own projects and activities. A wide range of committees exist including publicity, academic, charity, environment, sport, library, arts, business and social. Students are actively encouraged to lead and engage in these teams across the whole Academy.

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 HEAD 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

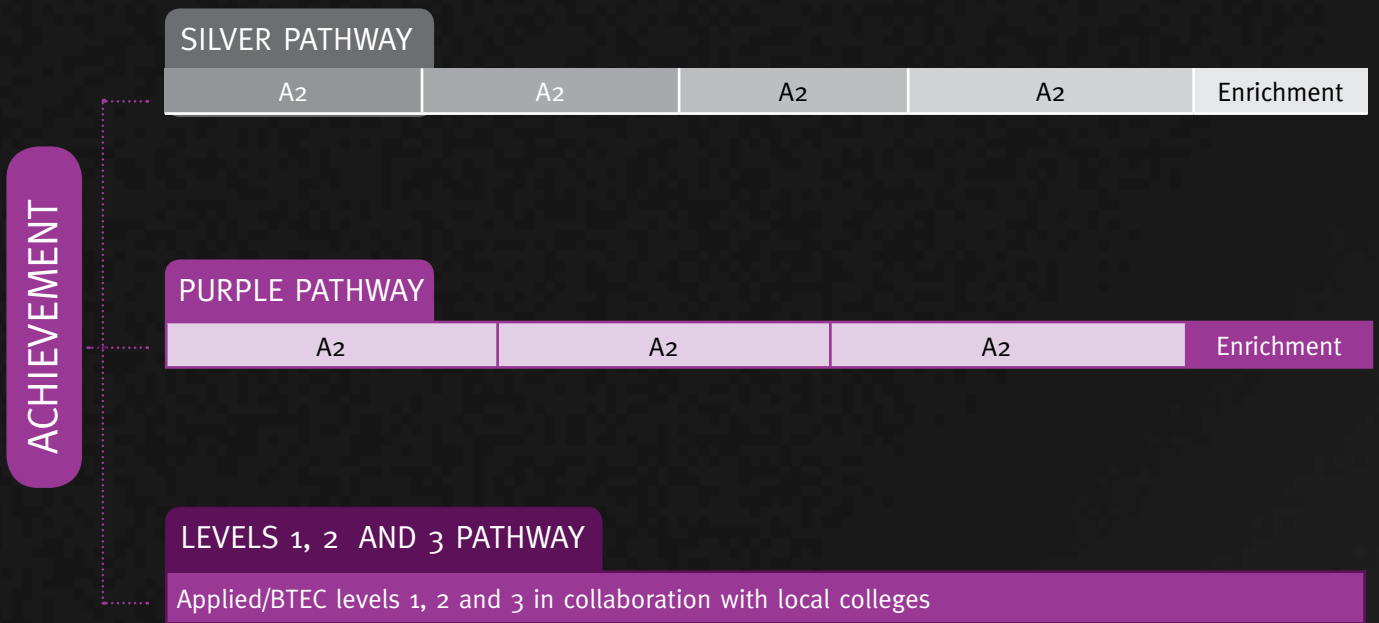
Sixth Form students have the opportunity to become an ambassador, working with staff to promote the Academy to the wider community and accompanying visitors. This role develops students' confidence and communication skills.

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.

PATHWAYS



ENTRY REQUIREMENTS

Silver Pathway – 6 GCSEs at grade 4 or above (or equivalent) including mathematics and English

Purple Pathway – 5 GCSEs at grade 4 or above (or equivalent) including mathematics and English
– if mathematics or English GCSE have not been achieved a re-sit will be included in this programme

Applied/BTEC level 1, 2 and 3 Pathway – see local college prospectus for entry requirements

All students will be expected to take part in academic enrichment, engage in leadership opportunities or participate in the mentoring programme throughout their Sixth Form experience. If the number of applications exceeds the Sixth Form capacity, the Post 16 admissions policy will be implemented, which is available on the Academy's website.

COURSES / INFORMATION

Courses offered are subject to student uptake but, wherever possible, we will try to accommodate individual student's needs. Additional courses may be offered to suit the needs of a particular cohort.

COURSES / COMMUNICATIONS

FRENCH/GERMAN A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL ASSESSMENT IN JUNE
ENTRY REQUIREMENTS	Grade 5 in GCSE French		
UNITS STUDIED IN YEAR 12	<p>Core content –</p> <ul style="list-style-type: none"> -Social Issues and Trends -Political and Artistic Culture -Grammar • Unit 1: Listening, Reading and Writing • Unit 2: Writing • Unit 3: Speaking 		
UNITS STUDIED IN YEAR 13	<p>Core content –</p> <ul style="list-style-type: none"> -Social Issues and Trends -Political and Artistic Culture -Grammar • Unit 1: Listening, Reading and Writing • Unit 2: Writing • Unit 3: Speaking <p>Topics covered include new technologies, immigration, relationships, the media and the environment.</p>		
FUTURE PATHWAYS	<p>Those who study French or German at A level prepare themselves for fluency and accuracy when conversing or writing in another language. Students will be able to give and justify their opinions on a number of interesting topics. They will become increasingly confident in being able to speak with and write to people in French or German-speaking countries. Studying the subject will help prepare students for further study or working life in an increasingly global economy.</p> <p>‘The limits of my language are the limits of my world.’ Wittgenstein</p>		

ENGLISH LITERATURE A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL ASSESSMENT IN JUNE
ENTRY REQUIREMENTS	Grade 5 in GCSE English literature		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Love Through the Ages: Shakespeare and Poetry • Unit 2: Love Through the Ages: Prose 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • 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	<p>This A level offers a great route for students considering higher education or a future career in journalism, education or theatre. Studying literature at A level is a great course for any individual with a love of reading. Texts from poetry, prose and drama are all explored alongside critical writing which enables students to develop their own views and ideas. The breadth of texts studied will broaden and mature any young reader into a critical thinker able to view the world with perception.</p>		

ENGLISH LANGUAGE A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL ASSESSMENT IN JUNE
ENTRY REQUIREMENTS	Grade 5 in GCSE English language		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Language and the Individual • Unit 2: Language Varieties 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • Unit 1: Language, the Individual and Society • Unit 2: Language, Diversity and Change • Unit 3: Independent Research Project: Language in Action 		
FUTURE PATHWAYS	<p>This A level course offers a great route for students considering a higher education or a future career in publishing, law or advertising.</p> <p>Studying language at A level allows students to explore the English language, past and present, and deepens their understanding of this global communication.</p> <p>The different variations of the English language will be analysed, developing their understanding and appreciation of English in all its contexts.</p>		

MEDIA STUDIES A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL ASSESSMENT IN JUNE
ENTRY REQUIREMENTS	Grade 5 in GCSE media Or Grade 5 in English language Or Grade 4 in English language and grade 5 in a creative subject such as art and photography		
UNITS STUDIED IN YEAR 12	<p>Core content –</p> <ol style="list-style-type: none"> 1. Media Language 2. Media Representation 3. Media Industries 4. Media Audiences <p>Unit 1: All areas of the theoretical framework and understanding of the media products students have engaged with</p> <p>Unit 2: Creating a Media Product</p>		
UNITS STUDIED IN YEAR 13	<p>Unit 1: Issues and Debates in the Media</p> <p>Unit 2: Case Study Products</p> <p>Unit 3: Creating a Media Product</p>		
FUTURE PATHWAYS	<p>This A level offers a great route for students considering higher education or a career in the media. Studying media at A level presents students with the opportunity to investigate topics that spark their interest whilst developing their knowledge and understanding of contemporary debates and issues. The practical production units enable 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.</p>		

ART AND DESIGN A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL ASSESSMENT IN JUNE
ENTRY REQUIREMENTS	Grade 5 in a GCSE art and design endorsed subject Or Level 2 Pass in an art or design BTEC qualification		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • 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. • Unit 2: Students respond to a stimulus provided by AQA, to produce work which provides evidence of their ability to research and develop ideas and to make clear the link between their own and others' work within specified time constraints. 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • Unit 1: 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. Practical elements make connections with some aspects of contemporary or past practice of artists and include written work between 1,000 and 3,000 words, which supports the practical work. This major project is supported by a series of smaller, but no less important, projects based around media and technique. These include a printmaking module, a textile design and print project. Annotation, critical artist analysis and drawing feature prominently throughout. Work is selected by the student for a portfolio presentation submitted for external moderation. • 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. 		
FUTURE PATHWAYS	This course will give students a wide choice of progression options into further study, training or relevant employment. Students who successfully complete the qualification will be well equipped to move on to a foundation course in art and design and then to a degree course in a wide range of visual arts.		



DESIGN AND TECHNOLOGY: PRODUCT DESIGN A LEVEL

EXAM BOARD	AQA	ASSESSMENT	COURSEWORK AND EXTERNAL EXAM IN JUNE
ENTRY REQUIREMENTS	Grade 5 in a GCSE art and design endorsed subject Or Level 2 Pass in an art or design BTEC qualification		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Technical principles and core designing and making principles • Unit 2: Design and Making 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • 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	<p>Product design 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.</p> <p>Product design encompasses a wide range of design disciplines but is firmly rooted in the skills required to design and make high quality products. Those who study product design at A level have an excellent foundation to go on to further study at degree level in product design, graphic design, furniture design, architecture, automotive design, interior design or landscape design. Studying product design will help prepare students for further studying or working life in an increasingly demanding consumer society.</p>		

DESIGN AND TECHNOLOGY: FASHION AND TEXTILES A LEVEL

EXAM BOARD	AQA	ASSESSMENT	COURSEWORK AND EXTERNAL EXAM IN JUNE
ENTRY REQUIREMENTS	Grade 5 in a GCSE art and design endorsed subject Or Level 2 Pass in an art or design BTEC qualification		
UNITS STUDIED IN YEAR 12	<p>This new 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. In Year 12 students will develop their practical skills studying modules in pattern drafting, garment construction, dying, embroidery, printing and quilting. Alongside this students will learn the theoretical knowledge of the fabrics and fibres they are working with.</p>		
UNITS STUDIED IN YEAR 13	<p>In Year 13 student 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.</p>		
FUTURE PATHWAYS	<p>Textiles and fashion helps students take a broad view of design and technology. The specification also helps them develop their capacity to design and make products and appreciate the complex relations between design, materials, manufacture and marketing. This specification requires students to develop their ability to design and make a product in both years of the course.</p> <p>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. Those who study textiles and fashion at A level have an excellent foundation to go on to further study at degree level 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 a working life in an increasingly demanding consumer society.</p>		

DRAMA AND THEATRE A LEVEL

EXAM BOARD	PEARSON (EDEXCEL)	ASSESSMENT	COURSEWORK, EXTERNAL PRACTICAL ASSESSMENT AND EXTERNAL EXAM IN JUNE
ENTRY REQUIREMENTS	Grade 4 in GCSE drama Or Merit in BTEC drama		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Exploration and Performance • Unit 2: Theatre Makers in Practice 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • Unit 1: Devising • Unit 2: Exploration and Performance • Unit 3: Theatre Makers in Practice 		
FUTURE PATHWAYS	<p>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. As well as offering students the opportunity to expand their theory and knowledge underpinning the creation of drama, they will learn how to evolve an original idea for a performance text and how to evaluate live performances. This course combines the activities of exploring plays, creating theatre, live performance, the analysis of theatre and the critical evaluation of all the aforementioned elements.</p>		

MUSIC A LEVEL

EXAM BOARD	PEARSON (EDEXCEL)	ASSESSMENT	EXTERNAL PERFORMANCE ASSESSMENT, EXTERNAL COMPOSITION ASSESSMENT AND EXTERNAL EXAM IN JUNE
ENTRY REQUIREMENTS	Grade 4 in GCSE Music Or Grade 5 (ABRSM) or equivalent on an instrument		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Performing • Unit 2: Composing • Unit 3: Appraising 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • Unit 1: Performing • Unit 2: Composing • Unit 3: Appraising 		
FUTURE PATHWAYS	<p>The course allows students to showcase their individual and/or ensemble performance skills, develop their composition skills to make original pieces of music against a brief as well as showcasing their individuality and technique. Students have the opportunity to expand their theory and knowledge underpinning the creation of music, how they would develop an original idea for a musical composition and the evaluation of areas of study within set works. Students successfully completing the course will have a thorough understanding of music, as well as exceptional analytical and creative skills.</p>		



COMPUTER SCIENCE A LEVEL

EXAM BOARD	OCR	ASSESSMENT	COURSEWORK AND EXTERNAL EXAMS IN JUNE
ENTRY REQUIREMENTS	Grade 6 in GCSE IT Or Grade 5 in computing		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Computing Principles • Unit 2: Algorithms and Problem Solving 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • Unit 1: Computer Systems • Unit 2: Algorithms and Programming 		
FUTURE PATHWAYS	This course provides a foundation for the study of computer science at a higher level. Students will gain theoretical understanding of computer science as well as developing their programming skills.		

MATHEMATICS A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL EXAM IN JUNE
ENTRY REQUIREMENTS	Grade 6 in GCSE mathematics		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Pure Mathematics • Unit 2: Statistics and Mathematics 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • Unit 1: Year 12 content • Unit 2: Pure Mathematics content not studied in Year 12 • Unit 3: Statistics and Mechanics 		
FUTURE PATHWAYS	There are many routes for A level mathematicians: degrees in engineering, accountancy and architecture require it. It can lead to careers in quantity surveying, financial services and banking among others. Students who successfully follow an A level in mathematics learn how to plan and process logically, to interpret the world around them in a factual way and improve their problem solving skills.		

FURTHER MATHEMATICS A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL EXAM IN JUNE
ENTRY REQUIREMENTS	Grade 7 in GCSE mathematics (You must choose A level mathematics as well)		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Further Pure 1 • Unit 2: Further Applied Mathematics (Choice of Decision, Further Mechanics or Further Statistics) 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • Unit 1 and 2: As for Year 12 • Unit 3: Further Pure 2 • Unit 4: Further Applied 2 (An additional paper from Year 12) 		
FUTURE PATHWAYS	In addition to the pathways outlined for A level mathematics, students wishing to study a degree in mathematics at a Russell Group university will need a good grade in further mathematics.		

COURSES / ETHICS, BUSINESS & HUMANITIES

BUSINESS A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL EXAMS IN JUNE
ENTRY REQUIREMENTS	Grade 5 in GCSE business Or Grade 6 in English literature or language		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Business 1 • Unit 2: Business 2 <p>Modules Include:</p> <ol style="list-style-type: none"> 1. What is business? 2. Managers, leadership and decision making 3. Decision making to improve marketing performance 4. Decision making to improve operational performance 5. Decision making to improve financial performance 6. Decision making to improve human resource performance 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • Unit 1: Business 1 • Unit 2: Business 2 • Unit 3: Business 3 <p>Modules Include:</p> <ol style="list-style-type: none"> 1. What is business? 2. Managers, leadership and decision making 3. Decision making to improve marketing performance 4. Decision making to improve operational performance 5. Decision making to improve financial performance 6. Decision making to improve human resource performance 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	Studying business allows students flexible routes of progression to higher education, training or employment, providing a broad background to business topics that would be covered by degree subjects.		

GEOGRAPHY A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL ASSESSMENT IN JUNE
ENTRY REQUIREMENTS	Grade 6 in GCSE geography Or Grade 6 in science Or Grade 6 in another humanities subject		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: Physical Geography: Water and carbon cycles, coastal systems, landscapes and hazards • Unit 2: Human Geography and Geography Field-work Investigation: Changing places and fieldwork investigation and geography skills • Unit 3: Geographical Investigation 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • 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 <p>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.</p>		
FUTURE PATHWAYS	Studying geography at A level opens a number of routes due to the investigative nature of the course which encourages time management, development of data collecting and presenting techniques. It encourages students to explore how the human and natural worlds interact and impact on each other. In this modern world of globalisation and interconnectedness, it provides the platform to study further at university or enter into the job market equipped with a broad spectrum of skills.		

HISTORY A LEVEL

EXAM BOARD	AQA	ASSESSMENT	COURSEWORK AND EXTERNAL EXAMS IN JUNE
ENTRY REQUIREMENTS	Grade 6 in GCSE history Or Grade 5 in English literature or language Or Grade 6 in another humanities subject and a grade 5 in English literature or language		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • Unit 1: The quest for political stability 1871-1929 • Unit 2: Building a new Britain 1951 – 1979 		
UNITS STUDIED IN YEAR 13	<ul style="list-style-type: none"> • 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	History A level is a well-respected course with higher education institutions and employers. It teaches a range of skills including analysis, debate, evaluation, time management and independent research. The course covers a range of British, European and world studies. The history of the periods studied includes many seminal events that have helped shape the modern world. History A level and degree students often go into business, law, archaeology, politics, accountancy, teaching and specialist historical jobs such as museum curator or archivist.		

PHYSICS A LEVEL

EXAM BOARD	OCR	ASSESSMENT	EXTERNAL ASSESSMENT IN JUNE
ENTRY REQUIREMENTS	Grade 6 in GCSE combined science and grade 5 in mathematics Or Grade 6 in physics, grade 6 in a second science and grade 5 in mathematics		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>Physics can lead to a wide range of degree courses including physics, astrophysics, engineering, mathematics and space science. There are a wide range of careers that can be accessed through the problem solving and mathematical skills learned and applied during the course. Physics also teaches students to apply the knowledge they learn to everyday situations. This means that the skills learnt across the curriculum are consolidated and enhanced. The world today is crying out for physicists both in the science industries and also in financial industries, as physicists are selected for their unique skills and their ability to solve problems and apply their knowledge to new situations.</p>		

CHEMISTRY A LEVEL

EXAM BOARD	OCR	ASSESSMENT	EXTERNAL ASSESSMENT IN JUNE
ENTRY REQUIREMENTS	Grade 6 in GCSE combined science and grade 5 in mathematics Or Grade 6 in chemistry, grade 6 in a second science and grade 5 in mathematics		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>The diversity of careers and university courses accessible through A level Chemistry is evident when looking at what our past students have gone on to study. Many chose to follow pathways into health or clinical related professions. Some entered into the world of industry joining petrochemical or pharmaceutical firms. For other students their interests lay in studying pure chemistry, pharmacology, biochemistry or even law. More general higher education courses were also followed due to the many transferable skills obtained throughout the course. Strong analytic and problem solving skills are sought after in the financial sector in particular. Some chemistry based courses at university offer industrial placements or can be combined with a modern foreign language.</p>		

BIOLOGY A LEVEL

EXAM BOARD	OCR	ASSESSMENT	EXTERNAL ASSESSMENT IN JUNE
ENTRY REQUIREMENTS	Grade 6 in GCSE combined science and grade 5 in mathematics Or Grade 6 in biology, grade 6 in a second science and grade 5 in mathematics		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>The A level biology syllabus covers a variety of traditional topics alongside some more contemporary ones. This range of study leads to a wide number of opportunities on completion of the course. Students that have studied biology are able to go on to study either science based courses such as biological sciences, medicine, chemistry, biomedical science, forensic science, midwifery, psychology or non-science based courses such as primary education, law, criminology, economics and languages. The A level course encourages the development of written, practical and research skills, all of which would allow entrance into the job equipped with a broad spectrum of skills.</p>		

PSYCHOLOGY A LEVEL

EXAM BOARD	AQA	ASSESSMENT	EXTERNAL EXAM IN JUNE
ENTRY REQUIREMENTS	Grade 5 in GCSE combined science, mathematics and English literature or language Or Grade 6 in biology, grade 5 in mathematics and English literature or language		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>Studying psychology can lead to a degree in this field or alternatively to a degree in one of the strands of psychology including: cognitive, developmental, clinical, criminal or social psychology. It is useful for careers when working with people, in a medical setting and teaching.</p>		

PHYSICAL EDUCATION A LEVEL

EXAM BOARD	AQA	ASSESSMENT	COURSEWORK AND EXTERNAL EXAMS IN JUNE
ENTRY REQUIREMENTS	Grade 5 in GCSE PE Or Grade 5 in biology		
UNITS STUDIED IN YEAR 12	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<p>The subjects students learn about will be invaluable at a personal level and will help them to be better at sport, no matter what their standard. This A level also opens up a whole number of career options such as sport scientist, physiotherapist, or working for a national governing body. PE goes well with other subjects. If students want a career in physical education they might also consider courses like biology. But no matter what the student's career ambition, if they are passionate about sport, this course is great to take alongside other topics.</p>		







Kettering Science Academy

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