



DREAM BIG,
GO FAR



A valued member of the

Brooke Weston Trust



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Welcome

Dear students and families,

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

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

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

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

This, combined with our wide range of subjects and track record of

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

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

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

Our ambition is to provide each student with an outstanding education that will prepare them for the challenges, demands and opportunities they will meet in the 21st century.

We are a valued member of the Brooke Weston Trust and its network of schools.

“Pupils speak warmly of their supportive teachers”
OFSTED 2019

Our association with the Trust further allows KSA’s students and staff access to a range of excellent opportunities, and gives us a shared sense of belonging and identity through joint ventures that occur across the Trust.

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

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

Tony Segalini
Principal



Dear students and families

At Kettering Science Academy's Sixth Form we offer a personalised experience for all our students. We have a proven track record of success with an ever increasing number of students obtaining places at Oxbridge and Russell Group universities as well as growing numbers securing prestigious apprenticeships.

A big part of our evergrowing success, is the emphasis we place on belonging to a community. When you become a student in our Sixth Form, we welcome you into our family and offer you ongoing support to follow your dreams. You will meet your tutor every morning and, through a bespoke mentoring programme, they will get to know you and how to best support you as you progress forwards. As well as this, during tutor time, you will work on developing your life skills including learning about finance and cooking!

Our high quality facilities, dedicated staff and new Sixth Form block allow you to work independently of the younger years while remaining a central part of the school. This new space has allowed our current students to take more control of their studying and developing their time management in preparation to move onto their next step.

Achievement for every student comes through hard work and we believe in creating the conditions which enable

every learner to be successful. While every student will study at least three A levels the extracurricular activities we offer allows you to develop key skills including independent study skills, leadership and confidence.

We understand that each young person has different aspirations and we work tirelessly to support you to achieve these. Our pastoral team, along with our independent careers adviser, offer you the support and guidance needed at each stage of your journey. A collaborative partnership with other Brooke

Weston Trust schools, local colleges, universities and organisations enables us to offer a varied and rich curriculum. Through working alongside these partners, we seek to offer a range of external speakers covering topics from university life and apprenticeships to job opportunities in a variety of sectors.

Our experience of supporting students to achieve their best and aim for the highest universities means we are aware of the challenges that our young people face during the transition between Years 11 and 12. We have well-established procedures

in place to ensure this process is as smooth as possible. We are proud of all of our Sixth Form students at the Academy and our continued investment in them is a sign of our commitment to each and every student that begins their A level and vocational studies with us.

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

Rachael Davies
Head of Sixth Form



Curriculum

Entry Requirements

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

Achievement

Staff at Kettering Science Academy are experts in their subject areas and provide a personalised learning programme tailored to the needs of our post 16 students. We set aspirational targets to help students accomplish their best and feel proud of their achievements. Many students go on to study at university, competing for top courses nationally.

Previous students have gone on to study at world class universities including Harvard, The University of Cambridge and Russell Group universities including Durham, Nottingham, Southampton and Manchester.

Values and Expectations

There is a positive learning environment in our Sixth Form which is based on clear expectations and mutual respect. Sixth Form students are expected to work and study independently, although there are opportunities for students to study with peers and staff in subject areas. The Sixth Form is part of the collegiate structure of the Academy and is integrated into the wider academic community, allowing students to participate in sporting activities

and engage in the enrichment programme. Students are expected to leave Kettering Science Academy as socially confident young adults who have experienced self development in addition to excellent academic success.

Tutor Support

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

Financial Support

The 1619 Bursary is available for students from low income families to support their education.

Application forms are available from student reception. Free school meals are also available to Sixth Form students. Apply at www.northamptonshire.gov.uk

Progress Checks

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

Parents' Evenings

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

Enrichment



Academic:

Future Learn Awards

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

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

Charity Events

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

Librarian

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

Personal:

Creative

First aid, film, music and drama clubs.

Sport

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

Mentoring

Peer mentoring throughout the Academy.

Individual Work Experience

All students will complete a work placement during their time in the Sixth Form. Students will be required to research and apply for their placement with support from their tutor.

Community Projects

Sixth Form students work with other year groups to plan and organise projects involving younger students and the community.

The aim is to develop their social and citizenship skills while being role models for younger students at the Academy.

Head Boy and Girl

The Head Boy and Girl are elected by their peers annually. Their role is to represent the Sixth Form on the school council, attend and speak at open evenings and take on leadership roles in the Academy. They have a key role in the Sixth Form review.

Sixth Form Ambassadors

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

Preparation for the Future

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

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

Destinations and courses in the last three years

We are very proud of the destinations that all of our students go onto.

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

Degree apprenticeships:

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

Our students have taken up degree apprenticeships in such diverse areas as banking, computer science and the construction industry.

We expect these opportunities to expand further as employers seek to recruit talented young people who they can train to fit in with their company's ethos and organisational needs.

Student Destinations

Here's where some of our most recent students are now studying

Northern Ireland

Ulster

Finance & Investment

West Midlands

Warwick

History
Math
Chemistry

Keele

English Literature
History
Medicine & Nursing

Birmingham City

Quantity Surveying

Nottingham Trent

Property Finance
Investments Accounting
Finance
Civil Engineering
Psychology
Law

East Midlands

Northampton

Electromechanical
Engineering

Leicester DMU

Graphic Design
Education Studies
Law LLB (Hons)
Business Management & Economics
History BA (Hons)
International Business
Policing

Leicester

Biological Sciences
Genetics
Policing

Loughborough

Sport and Exercise

Wales

Cardiff

Law

Swansea

Midwifery
Chemical Engineering

Aberystwyth

Astrophysics

Scotland

Edinburgh

Medicine

North West

Sheffield Hallam

Sport Business Management
Fashion

Sheffield

Electrical Engineering

Lancaster

Mechanical Engineering

Edge Hill University

Film Making

Salford

Contemporary Military
International History

Manchester

Biomedical
Science
Medicine

North East

Newcastle

Biomedical Science

Durham

Natural Sciences
Maths
Physics

Teeside

Psychology & Counselling

East of England

University of East Anglia

English Lit with Creative Writing

University of Cambridge

Medicine
Natural Sciences
Politics
Engineering

London

Goldsmiths

Fine Art

St Mary's Twickenham

Sport

South East

Kent

Criminology

Essex

Modern Languages
Marine Biology

Oxford

Chemistry

Oxford Brookes

International Relations
Formula 1 Engineering
Design

South West

Bristol

Law

Exeter

Medicine

Southampton

Economics

USA

Harvard

Chemical Engineering

Art and Photography

- Fine Art
- Photography

Assessment:

External Assessment in June

Entry Requirements:

This course is open to students who have achieved a grade 5 in an art and design endorsed subject

OR

A Level 2 pass in an art or design BTEC qualification.

Art & Design: Fine Art

A Level Edexcel

Units studied in Year 12:

Unit 1 – Personal Investigation

This unit of work contributes to 60% of the total qualification. All project work is set and assessed internally with an external moderation at the end of the course.

In this component students are given opportunities to generate and develop ideas, research primary and contextual sources, record practical and written observations, experiment with Fine Art media and processes, and refine ideas towards producing personal resolved outcomes.

- The portfolio or work consists of three major elements: supporting studies, practical work and a personal written study.
- Supporting studies and practical work will comprise a portfolio of development work and outcomes based on given/chosen themes.
- The personal study will be evidenced through critical written communication showing contextual research and understanding in a minimum 1000 words of written prose which may contain integrated images. The personal study comprises 12% of the total qualification.

Units studied in Year 13:

Unit 1 – Personal Investigation continued

Unit 2 – Externally Set Assignment

This unit of work contributes to 40% of the total qualification and is externally set, assessed internally and externally moderated at the end of the course.

In this component students will develop a portfolio of work in the same manner as component 1 working towards producing a personally resolved outcome in response to the externally set theme.

- Incorporates 2 major elements: preparatory studies and the 15 hour period of sustained work.
- Preparatory studies will comprise a portfolio of practical and written development work based on the Externally Set Assignment
- During the 15 hour period of sustained focus under examination conditions, students will produce a final outcome/s extending from their preparatory studies in response to the externally set assignment.

Disciplines taught within Fine Art

- Drawing and painting
- Printmaking
- Lens based image making
- Sculpture

Future Pathways:

The course will develop students' skills needed to produce a high standard of work for a portfolio, interview or degree.

Students who successfully complete the qualification will be prepared to study a wide range of creative and combined degrees or complete a Foundation Diploma in Art and Design at university, experiencing different art and design disciplines that help build a portfolio for application on to a specialist Art Degree.

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

Assessment:

Portfolio and Externally set Assignment

Entry Requirements:

This course is open to students who have achieved grade 5 in Art

OR

Photography GCSE

Art & Design: Photography

A Level Edexcel

Units studied in Year 12:

Unit 1 – Personal Investigation

This unit of work contributes to 60% of the total qualification. All project work is set and assessed internally with an external moderation at the end of the course.

In this component students are given opportunities to generate and develop ideas, research primary and contextual sources, record practical and written observations, experiment with photographic lens based media and processes, and refine ideas towards producing personal resolved outcomes.

- The portfolio or work consists of three major elements: supporting studies, practical work and a personal written study.
- Supporting studies and practical work will comprise a portfolio of development work and outcomes based on given/chosen themes.
- The personal study will be evidenced through critical written communication showing contextual research and understanding in a minimum 1000 words of written prose which may contain integrated images. The personal study comprises 12% of the total qualification.

Units studied in Year 13:

Unit 1 – Personal Investigation continued

Unit 2 – Externally Set Assignment

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- Incorporates 2 major elements: preparatory studies and the 15 hour period of sustained work.
- Preparatory studies will comprise a portfolio of practical and written development work based on the Externally Set Assignment
- During the 15 hour period of sustained focus under examination conditions, students will produce final outcome/s extending from their preparatory studies in response to the externally set assignment.

Future Pathways:

This course helps students to develop creative and technical skills through photography. They will become a good photographer and have skills that could be useful in many industries. Students who successfully complete this qualification will have an excellent base to go on to further study at foundation and degree level in photography or other art disciplines.

Business

• Business



Business

A Level

AQA

Assessment:

External Assessment in June

Entry Requirements:

This course is open to students who have achieved a grade 5 in GCSE business

OR

A grade 5 in English language or literature

Units studied in Year 12:

Unit 1: Business 1 **Unit 2:** Business 2

Modules Include:

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

Units studied in Year 13:

Unit 1: Business 1 **Unit 2:** Business 2
Unit 3: Business 3

Modules Include:

1. What is business?
2. Managers, leadership and decisionmaking
3. Decision making to improve marketing performance
4. Decision making to improve operational performance

5. Decision making to improve financial performance
6. Decision making to improve human resource performance
7. Analysing the strategic position of a business
8. Choosing strategic direction
9. Strategic methods: how to pursue strategies
10. Managing strategic change

Future Pathways:

This course will give students flexible routes of progression into higher education, training or employment, providing a broad background to business topics. Students who successfully complete this qualification will be prepared to study a degree in business accountancy, finance, HR management or marketing.

Career pathways include accountancy, banking, management consultancy, human resources, operational research, logistics and distribution, retail, sales and marketing and events.



English

• English Language and Literature



English Language and Literature

A Level

AQA

Assessment:

Coursework and External Assessment in June

Entry Requirements:

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

Units studied in Year 12:

- 4.1.2 Remembered Places
- 4.1.3 Imagined Worlds
- 4.1.4 Poetic Voices

Units studied in Year 13:

- 4.2.2 Writing about Society
- 4.2.3 Critical commentary
- 4.2.4 Dramatic Encounters
- 4.3 Making Connections

Future Pathways:

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

Career pathways include media, journalism, law, theatre, education and publishing.

Humanities

- Ethics
- Geography
- History
- Law
- Politics

Religious Studies

OCR

Units studied in Year 12:

Unit 1: Philosophy of religion

Unit 2: Ethics and religion

Units studied in Year 13:

Unit 3: Study of religion

Unit 4: The dialogue between philosophy of religion and religion

Unit 5: The dialogue between ethical studies and religion

Future Pathways:

Students study the moral and ethical dimensions of philosophical thinkers and how these apply to modern ethical dilemmas such as abortion, euthanasia and war. Employers and universities know that this subject teaches people to think clearly and to express themselves coherently.

In conclusion, the skills that you will develop in analysis and argument are valuable in a range of careers.

For example, former students are accountants, personnel officers, solicitors, criminal psychologists, speech therapists, nurses, teachers and too many more to mention.

Assessment:

External Exam in June

Entry Requirements:

This course is open to students who have achieved a grade 6 in GCSE ethics

OR

A grade 5 in GCSE English language/literature

OR

A grade 6 in another humanities subject

Geography

A Level

AQA

Units studied in Year 12:

Unit 1 Physical Geography:

Water and carbon cycles, coastal systems, landscapes and hazards

Unit 2 Human Geography and Geography Fieldwork Investigation:

Changing places and fieldwork investigation and geography skills

Unit 3: Geographical Investigation

Units studied in Year 13:

Unit 1 Physical Geography:

Water and carbon cycles, coastal systems, landscapes and hazards

Unit 2 Human Geography:

Global systems and global governance, changing places and either contemporary urban environments or population and the environment or resource security.

Unit 3 Geography Fieldwork Investigation:

Students complete an individual investigation which must include data collected in the field. The investigation must be based on a question or issue defined and developed by the student relating to any part of the specification content.

Future Pathways:

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



Assessment:
External Exam in June

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

OR

A grade 6 in another humanities subject

History

A Level

AQA

Units studied in Year 12:

Unit 1: The quest for political stability 1871-1929

Unit 2: Building a new Britain 1951-1979

Units studied in Year 13:

Unit 1: The quest for political stability 1871-1991

Unit 2: The making of modern Britain 1951-2000

Unit 3: Historical investigation covering 100 years on a topic that does not overlap any other units studied (3000-3500 words)

Future Pathways:

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

Law

A Level

OCR

Units studied in Year 12:

Unit 1: The Legal System & Criminal Law

Unit 2: Law Making and the Law of Tort

Unit 3: Further Law – Human Rights or Contract Law

Units studied in Year 13:

Unit 1: The Legal System & Criminal Law

Unit 2: Law Making and the Law of Tort

Unit 3: Further Law – Human Rights or Contract Law

Future Pathways:

The course develops students' written communications, research and problem solving skills. Students who successfully complete this course will be prepared to study a degree in law, social work, journalism, policing or accountancy.

Career pathways include solicitor, barrister, lawyer, legal executive, accountant, journalist, police officer and social worker.

Assessment:
External Exam in June

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

Computer Science

• Computer Science



Computer Science

A Level

OCR

Units studied in Year 12:

Unit 1: Computing Principles

Unit 2: Algorithms and Problem Solving

Units studied in Year 13:

Unit 1: Computer Systems

Unit 2: Algorithms and Problem Solving

Unit 3: Independent Project

Future Pathways:

This course will develop students'

creativity, analytical and problem solving skills, which are highly valued by universities and employers. Students who successfully complete this qualification will be prepared to study a degree in computer science, engineering, games design or information science.

Career pathways include computer programming, games design, engineering, IT specialism, software developing and web design.

Maths

- Maths
- Further Maths
- AQA Certificate Level 3 Mathematical Studies

Assessment:

External Exam in June

Entry Requirements:

This course is open to students who have achieved a grade 6 in GCSE maths

Maths

A Level Edexcel

Units studied in Year 12:

Unit 1: Pure Mathematics

Unit 2: Statistics and Mathematics

Units studied in Year 13:

Unit 1: Year 12 content

Unit 2: Pure Mathematics and content not studied in Year 12

Unit 3: Statistics and Mechanics

Future Pathways:

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

Further Maths

A Level Edexcel

Units studied in Year 12:

Unit 1: Further Pure 1

Unit 2: Further Applied Mathematics (Choice of Decision, Further Mechanics or Further Statistics)

Units studied in Year 13:

Unit 1: As for Year 12

Unit 2: Further Pure 2

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

Future Pathways:

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

AQA Certificate Level 3 Mathematical Studies

AQA

Units studies in Year 12:

Unit 1

- Analysis of data
- Maths for personal finance
- Estimation

Units studied in Year 13:

Unit 2A: Statistical techniques

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

Future Pathways:

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

Media

Media

A Level Eduqas

Units studied in Year 12:

Core content:

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

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

Unit 2: Creating a Media Product

Units studied in Year 13:

Unit 1: Issues and Debates in the Media

Unit 2: Case Study Products

Unit 3: Creating a Media Product

Future Pathways:

This course enables students to demonstrate their creative and technical competence with new digital media whilst also allowing them the autonomy to design and create features which reflect their own media tastes.

Students who successfully complete this course will be prepared to study a degree in film production, illustration, journalism, marketing, media, communications or photography.

Career pathways include publishing, broadcasting, TV and film, advertising, marketing and journalism as well as the gaming industry.

Assessment:

External Assessment in June

Entry Requirements:

This course is open to students who have achieved a grade 5 in GCSE media

OR

A grade 5 in English language

OR

A grade 5 creative subject such as art and photography

Modern Foreign Languages



French/German

Units studied in Year 12:

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

Theme 1: Social developments in France or Germany

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

Theme 3: Immigration and multicultural society

Theme 4: 20th Century history linked to the country of the
German – Reunification of Germany
French – The occupation and resistance in France

Units studied in Year 13:

The study of a French or German novel and film.

Future Pathways:

This course allows students to gain invaluable language skills which enhance employment prospects in a variety of careers, both in Europe and further afield.

Students who successfully complete this course will be prepared to study a degree or combined degree in French/German. Career pathways include travel, tourism, teaching, interpreting and translation.

Assessment:

External Assessment in June

A Level

Edexcel

Entry Requirements:

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



Biology

A Level

OCR

Units studied in Year 12:

Unit 1: Development of Practical Skills in Biology

Unit 2: Foundations in Biology

Unit 3: Exchange and Transport

Unit 4: Biodiversity, Evolution and Disease

Units studied in Year 13:

Unit 1: Development of Practical Skills in Biology

Unit 2: Foundations in Biology

Unit 3: Exchange and Transport

Unit 4: Biodiversity, Evolution and Disease

Unit 5: Communication, Homeostasis and Energy

Unit 6: Genetics, Evolution and Ecosystems

Future Pathways:

This course allows students to develop excellent practical, organisational, observational and investigative skills. Students who successfully complete this course will be prepared to study a degree in biological sciences, medicine, chemistry, biomedical science, forensic science, midwifery or psychology.

Career pathways include research, teaching and lecturing, biotechnology, nursing, agriculture, physiotherapy, pharmaceutical practice, dentistry, veterinary science and the medical profession. scientific principles, as well as those scientific practical skills recognised by higher education institutions and employers to be most important.

Assessment:

Portfolios and external Assessment in June

Entry Requirements:

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

OR

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



Science

- Biology
- Chemistry
- Physics



Chemistry

A Level

OCR

Units studied in Year 12:

Unit 1: Development of Practical Skills in Chemistry

Unit 2: Foundations in Chemistry

Unit 3: Periodic Table and Energy

Unit 4: Core Organic Chemistry

Units studied in Year 13:

Unit 1: Development of Practical Skills in Chemistry

Unit 2: Foundations in Chemistry

Atoms, Compounds, Molecules and Equations, Amount of Substance, Acid–Base and Redox Reactions, Electrons, Bonding and Structure.

Unit 3: Periodic Table and Energy

The Periodic Table and Periodicity, Group 2 and the Halogens, Qualitative Analysis, Enthalpy Changes, Reaction Rates and Equilibrium (qualitative).

Unit 4: Core Organic Chemistry

Basic Concepts, Hydrocarbon, Alcohols and Halo Alkanes, Organic Synthesis Analytical Techniques (IR and MS).

Unit 5: Physical Chemistry and Transition Elements:

Reaction Rates and Equilibrium (quantitative), pH and Buffers, Enthalpy, Entropy and Free Energy, Redox and Electrode Potentials, Transition Elements.

Unit 6: Organic Chemistry and Analysis

Future Pathways:

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

Career pathways include chemistry, pharmacology, biochemistry, law and the healthcare profession.

Assessment:

Portfolios and external Assessment in June

Entry Requirements:

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

OR

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



Physics

A Level

OCR

Units studied in Year 12:

Unit 1: Development of Practical Skills in Physics

Unit 2: Foundations of Physics

Unit 3: Forces and Motion

Unit 4: Electrons, Waves and Photons

Units studied in Year 13:

Unit 1: Development of Practical Skills in Physics

Unit 2: Foundations of Physics

Physical Quantities and Units, Scalars and Vectors, Measurements

Unit 3: Forces and Motion

Unit 4: Electrons, Waves and Photons

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

Unit 5: Newtonian World and Astrophysics:

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

Unit 6: Particles and Medical Physics

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

Future Pathways:

This course develops students' problem solving and mathematical skills. Students who successfully complete this course will be prepared to study a degree in astrophysics, biomedical engineering, engineering or physics.

Career pathways include engineering, coastal scientists, pyrotechnics, astrophysicists, computer game design and weather forecasting.

Assessment:

Portfolios and external Assessment in June

Entry Requirements:

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

OR

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



Social Science

- Health & Social Care BTEC Level 3 National Extended Certificate
- Psychology
- Sociology
- Child Development BTEC Level 3 National Extended Certificate



Health & Social Care BTEC Level 3 National Extended Certificate

BTEC

Edexcel

Units studied in Year 12:

Unit 1: Human Lifespan Development

Unit 14: Physiological Disorders and their Care

Units studied in Year 13:

Unit 1: Working in Health and Social Care

Unit 5: Meeting Individual Care and Support Needs

Future Pathways:

The course develops students' understanding of human behaviour patterns, the organisational structures in the health and care sector and ethics, rights and responsibilities. Students who successfully complete the qualification will be prepared to study a degree in counselling, social work or nursing.

Career pathways include social work, charity work, civil services, counselling, lecturing, healthcare and local government administration.

Assessment:

Coursework and External Assessment in January/June

Entry Requirements:

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

Psychology

A Level

AQA

Units studied in Year 12:

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

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

Units studied in Year 13:

Unit 4: Introductory Topics in Psychology: Social Influence, Memory, Attachment, Psychopathology

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

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

Future Pathways:

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

Assessment:

External Exam in June

Entry Requirements:

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

OR

A grade 6 in biology, grade 5 in maths and English language or literature

Sociology



Units studied in Year 12:

- Families and Household
- Education
- Research Methods

Units studied in Year 13:

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

Future Pathways:

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

Career pathways include family support, research and social work.

Childrens Play, Learning and Development BTEC Level 3 Extended Certificate



Units studied in Year 12:

1. Child Development (Exam)
2. Health and Safety in Early Years Settings (Portfolio)
3. Play & Learning (Portfolio)

Units studied in Year 13:

4. Safeguarding in Early Years (Portfolio)
5. Meeting Children's Physical Development, Physical Care and Health Needs (Portfolio)
6. Observation, Assessment & Planning (Portfolio)

Future Pathways:

The course develops students understanding of how children develop over time from birth, to early years, to primary years through to adolescence. This qualification will prepare students to work with children and understand the different stages of development they go through.

This course will benefit students wishing to work directly with young children or progress into Higher Education in related courses like primary education, nursery education, nursing, clinical psychology or child development.

Assessment:
External Exam in June

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

Assessment:
Coursework and examinations

Entry Requirements:
5 GCSE grades including English and Maths at least grade 4.



Physical Education

• Physical Education Cambridge Technical

Physical Education Cambridge Technical



Units studied in Year 12:

- Unit 1:** Body System and the Effect of Physical Activity
- Unit 2:** Sports Coaching and Activity Leadership
- Unit 3:** Sport Organisation and Development
- Unit 5:** Performance and Analysis in Sport and Science
- Unit 8:** Organisation of a Sports Event

Units studied in Year 13:

- Unit 1:** Body System and the Effect of Physical Activity
- Unit 2:** Sports Coaching and Activity Leadership
- Unit 3:** Sport Organisation and Development
- Unit 5:** Performance and Analysis in Sport and Science
- Unit 8:** Organisation of a Sports Event

Future Pathways:

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

Assessment:
External Exams in June

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

OR

A grade 5 in biology

Pathways and A Level choices

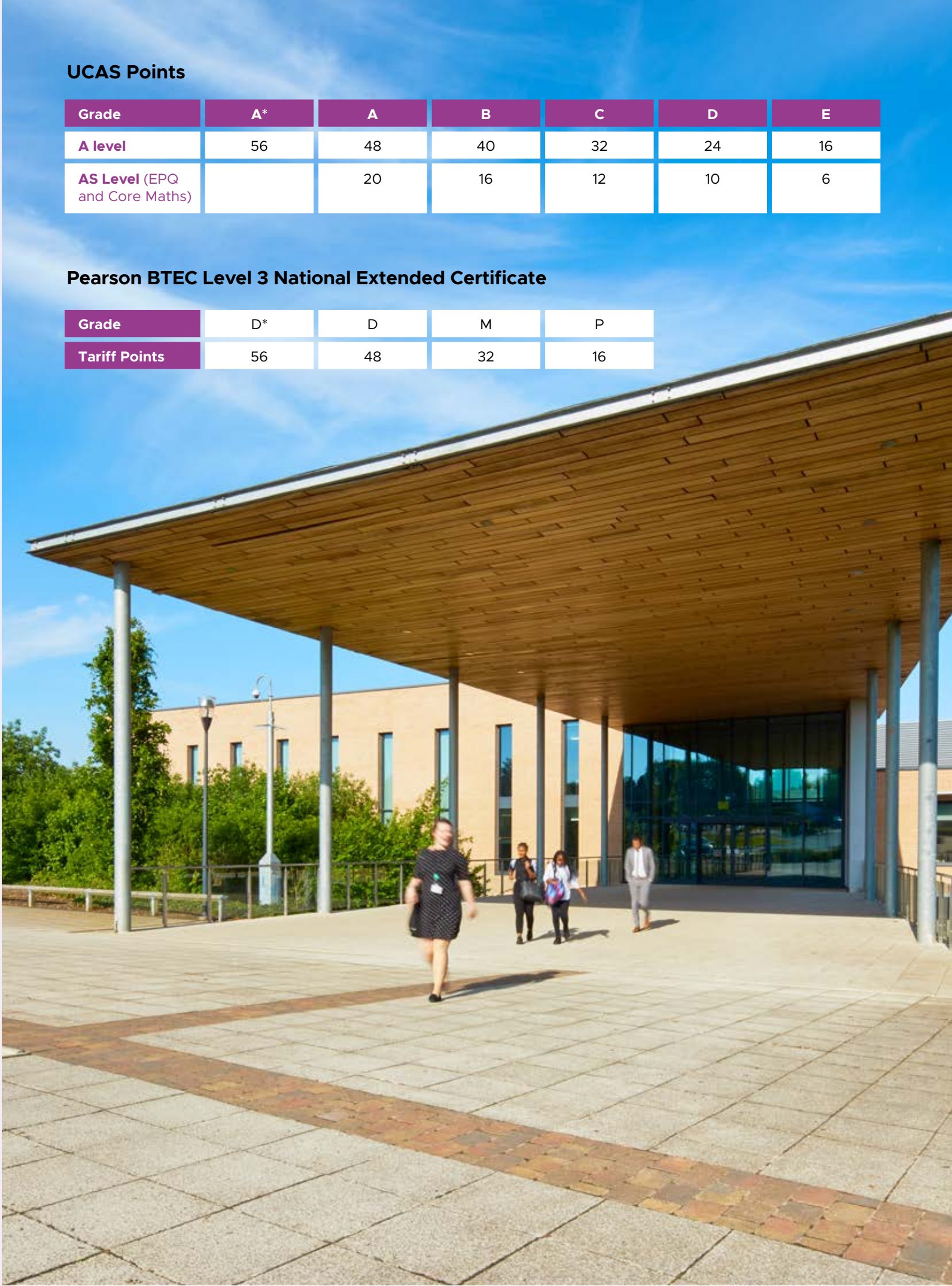
Subject	Pathway
Medicine & Dentistry (A1 & A2)	A levels in biology and chemistry are held by almost all accepted applicants (94%) and many also hold an A level in maths (64% hold all three).
Maths (G1 & G2)	An A level in maths is almost always required (98% of accepted applicants hold this), often with further maths (64% hold both A levels).
Economics (L1)	An A level in maths and/or economics is usually required. Almost 60% of accepted applicants hold both qualifications and the remainder hold one or the other (fewer than 8% hold neither).
European Languages (R)	At least 89% of all UK accepted applicants hold an A level in French, Spanish or German. No clear vocational pathway into studying languages – 96% of accepted applicants hold an A level.
Engineering (H)	84% of applicants have A levels. Maths and Physics are usually required with 62% of applicants having both Maths and Physics.
Nursing (B7)	43% of applicants hold no A levels. The most commonly held vocational qualification by English students is the Pearson BTEC Level 3 National Extended Diploma in Health and Social Care. Students with post-16 vocational qualifications in health and social care are highly likely to choose a nursing degree. For those applying with A levels, the subjects vary – the most commonly held are biology and psychology, with 36% of all accepted applicants holding at least one of these A levels.
Sport and Exercise Science (C6)	For those applying with A levels, the most commonly held is PE - 29% of all accepted applicants hold this A leve.
Computer Science (I)	32% of accepted applicants hold no A levels. Vocational qualifications in IT or computing are particularly relevant. 40% of accepted applicants hold an A level in computing, and 43% hold an A level in maths.
Education (X)	Accepted applicants hold a wide range of qualifications. 36% of accepted applicants hold no A levels. The most commonly held vocational qualification by English students is the NCFE CACHE Technical Level 3 Diploma in Childcare and Education (Early Years Educator). For those applying with A levels, the most commonly held subjects are sociology and psychology, with 36% of accepted applicants holding one of these A levels alongside a number of other subjects.
Business (N)	Accepted applicants hold a wide range of qualifications. One in four accepted applicants hold no A levels. The most commonly held vocational qualifications by English students are the Pearson BTEC Level 3 National Extended Certificate and the Extended Diploma in Business. Only 35% of all accepted applicants hold an A level in business studies.
Law (M)	Accepted applicants hold a wide range of qualifications. An A level in English is desirable. Law A level is not essential but would provide a good foundation for the degree and as such would be recommended. Following a Law degree there is further study to achieve some positions and this can involve finding a placement and further costs.

UCAS Points

Grade	A*	A	B	C	D	E
A level	56	48	40	32	24	16
AS Level (EPQ and Core Maths)		20	16	12	10	6

Pearson BTEC Level 3 National Extended Certificate

Grade	D*	D	M	P
Tariff Points	56	48	32	16



The Brooke Weston Trust

Proven track record: 30 years of making a difference

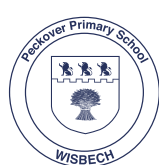
Kettering Science Academy is a valued member of the Brooke Weston Trust

The mission of the Trust is 'to transform educational performance in the communities where we work, to improve student achievement by removing the barriers to learning and providing opportunities for personal development.'

Brooke Weston Trust was established in 2018 and is led by our CEO, Dr Andrew Campbell. BWT is a family of schools, each with its own unique character. However, we all share a culture of high expectations and ambition for all – this is 'The BWT Way'.

Our schools, primary and secondary, are based in Northamptonshire and Cambridgeshire. As a family, we regularly collaborate with each other to drive towards providing the best educational opportunities and life chances for our young people. This means that staff and students from across BWT work together to support each other, share best practice and try new ideas.

Over each academic year there are many opportunities for students from all our schools to meet, compete and celebrate success together.





Application Process

For details on how to apply please visit us on
www.ketteringscienceacademy.org/sixthform

How to find us

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DREAM BIG,
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