



TAKING LEARNING TO  
A WHOLE NEW LEVEL

The background features a dark red nebula with intricate, glowing patterns of dust and gas, set against a deep blue sky filled with numerous bright, distant stars. The overall composition is a dramatic, high-contrast space scene.

FROM  
WORKSTATION...



# ...TO SPACE STATION

Taking learning to a whole new level  
[www.ikbacademy.org.uk](http://www.ikbacademy.org.uk)

- Science & Medicine
- Technology
- Engineering
- Maths
- Architecture & the Built Environment



# WELCOME

I am delighted to introduce IKB Academy offering an exciting and innovative approach to education that will equip you with the highest quality qualifications, skills and experiences you need to succeed and thrive in the ever changing world of university, apprenticeships and ultimately work.

- **IKB is an academy where:**  
Exceptional teaching and guidance, excellent facilities and an inspiring and motivating curriculum
- **Develop within students a:**  
Love of Science, Technology, Engineering and Maths, a love of learning, respect, kindness and a sense of responsibility
- **Resulting in:**  
Resilient and confident young adults with exceptional qualifications, unrivalled experiences and skills



We are an inclusive state academy catering for the individual needs of all of our students with an intentionally small intake, where professional relationships can really make a difference to nurture as well as challenge. We value the contribution made by all of our students and seek to create an atmosphere of trust and positivity where we can all enjoy and achieve great things together.

IKB is an exciting option for 14-19 students, but it is not an easy option and on entering IKB we will raise your aspirations, so, on leaving, you will realise these aspirations competing against the best for university places, apprenticeships, work or training in your chosen field.

We welcome applications from all students and offer many different subjects through our partnership with

Wellsway School. Many of our students study a humanities or language GCSE allowing them access to the EBacc qualification.

To apply please complete the application form on our website or contact us to arrange a meeting and we will be happy to discuss your options with you.

I look forward to welcoming you to IKB.

**Mrs D Gibbs**  
Principal



# WHAT DOES IKB OFFER?

We recognise that students need more than a “one size fits all” traditional education to compete and succeed in today’s world. We combine expert staff, outstanding facilities, industry connections and student support to drive innovation in education.

In doing so we offer students more and in turn students from IKB offer the national and global economy more. On graduating from IKB students have gained the high quality qualifications, skills and experiences that mean they are highly sought after for the most competitive places at university, apprenticeships and jobs in sectors that currently show local and national skills shortages.

IKB Academy specialises in STEM - Science, Technology, Engineering and Maths.

This specialism is driven by both local and national demand for qualified, skilled and experienced young people in these areas. As part of the Wellsway Multi Academy Trust and having our campus located on the Wellsway site means we can also offer students a wide range of GCSEs, A levels and BTEC qualifications alongside the STEM subjects offered at IKB.



# WHAT ARE THE KEY DIFFERENCES BETWEEN IKB ACADEMY AND A TRADITIONAL SCHOOL OR COLLEGE?

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**To unlock potential** students are supported by coaches who inspire, support and develop their enquiring minds, enabling students to take risks, meet challenges and achieve their potential in national qualifications

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**To encourage innovation** in education our classes are smaller. Small numbers in our school also allows our delivery to be personal, individual and supportive

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**To immerse our students** in STEM our teachers are experienced specialist teachers of Science, Technology, Engineering and Maths and our new building is a state of the art STEM learning environment

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**To develop the skills and experience** they will need to compete for higher education and apprenticeships, all our students take part in high-quality work placements

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**To foster teamwork** and have fun we organise a varied enrichment programme that develops other interests and allows students and staff to work and enjoy activities together outside the classroom

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**To develop the attributes** they will need for the next stage of their education, we work through a framework of study and employability skills which is monitored and assessed through the coaching programme

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Quality of teaching,  
learning and assessment  
Rated 'Good'

OFSTED 2018

# WHY CHOOSE STEM AT IKB?

“Pupils are choosing to study STEM subjects because of the successes”

OFSTED 2018

## Leading to high quality STEM careers, for example mechanical engineer

- Mechanical engineers undertake research, design, manufacture and management/maintenance of mechanical systems, including engines, machinery and vehicles
  - They develop solutions to practical problems to an agreed cost
  - Median pay for this job is £40K (UK median £22K)
  - It is one of the worst affected jobs in terms of skills shortage
- At IKB study GCSEs and then progress to A level Maths, A level Physics and Further Maths or Core Maths and double Engineering to enter this profession

## Scientific knowledge is our speciality

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20% of people in the UK workforce need scientific knowledge and training to do their current jobs – Royal Society

## National shortage

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Engineering companies are projected to need 265,000 people each year with Engineering skills each year until 2024

## Earn more with a STEM qualification

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Those with STEM A levels earn 8.5% more than similarly qualified workers without STEM A levels (Institute for Fiscal Studies)

“Our students achieved 100% pass rate in all GCSE STEM subjects”

GCSE RESULTS 2018



## More women needed in STEM careers

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Still only 22% of the STEM workforce are women – the nation needs more women working in STEM careers

## Fantastic achievement

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70% of grades in Engineering were Distinction or Distinction\*

## Student destinations

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The majority of our students successfully secure places at their first choice university or apprenticeship

## Year 10 parent feedback

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“My child settled in quickly thanks to well organised and supportive staff”

## Our results speak for themselves

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65% of students achieved the nationally recognised grade 4 or above in English and maths



“IKB can give me an advantage in the future compared to other students”

Jake, Year 10

“IKB offers me everything I need to achieve my ambitions”

Sam, Year 10

## There are an increasing number of STEM apprenticeships

- 78,480 people started engineering apprenticeships in 2015-16
- New STEM roles are expected to double in the next ten years, with the biggest growth area in higher and degree apprenticeships

“Girls are welcomed into the school and feel valued”

OFSTED 2018

Keep all your doors open and study STEM subjects





## YEAR 10 AND 11

Mathematics, English and Science are the foundation for all STEM subjects and therefore all IKB students study the following core subjects.

### Students choose between:

- GCSE English Language
- GCSE English Literature
- GCSE Mathematics
- GCSE Biology, Chemistry and Physics (Triple Science)

All students will attend a three week programme of work placements and STEM related enrichment activities. Typically two weeks placement, one week enrichment.

All students have access to the lunchtime and after school sports clubs that run on the Wellsway site and in addition we provide a STEM enrichment programme.

### Students choose three option subjects. At IKB we deliver:

- GCSE Computing
- GCSE Product Design
- BTEC Level 2 Engineering
- BTEC Level 2 Construction
- ICT



**As one of their choices, students can choose a Wellsway taught subject where they fit in the block system; these include:**

- GCSE History
- GCSE Geography
- GCSE French
- GCSE German
- GCSE Art
- GCSE PE

And many others (availability can be discussed on request).

When students have made their subject choices we will organise the teaching blocks to maximise the availability of student choices.

Subject details can be found on the IKB website.

# AS AN IKB STUDENT YOU GET...

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**Fantastic qualifications** taught by passionate teachers in excellent facilities

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**Two weeks in a work placement** designed for you

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**A programme to develop your skills** of communication and teamwork

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**A curriculum designed to meet your future aspirations** and set you up for a successful transition into IKB Sixth Form

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**An adult coach** who will meet with you regularly to support you and help with your attendance, progress, skills and work placement

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**A week of enrichment activities** in science, technology, engineering and maths

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**Membership of a small school** where we know you as an individual and work with you and your parents to maximise your potential

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Outcomes for pupils  
Rated 'Good'

OFSTED 2018



## YEAR 12 AND 13

We offer an exciting range of courses. Students can choose up to four options from:

### A levels

- Maths
- Further Maths
- Physics
- Chemistry
- Biology
- Product Design
- Computer Science
- Fine Art
- Textiles
- Photography
- Drama and Theatre
- PE
- Music
- French
- German
- Business Studies
- Economics
- English Language

- English Literature
- English Lit and Lang
- Media Studies
- Geography
- History
- Religious Studies
- Psychology
- Sociology

### Vocational/other

- Core Maths
- BTEC Science
- BTEC Engineering
- BTEC Business
- BTEC Health and Social Care
- BTEC Music
- BTEC Public Services
- CTEC Sport
- Extended Personal Qualification (EPQ)

Other courses may be available upon request.

When students have made their subject choices we will organise the teaching blocks to maximise availability.

It is expected that all courses will run for two years with students completing the full A level or BTEC course.

Entry requirements and subject details can be found on our website.



# AS AN IKB SIXTH FORM STUDENT YOU GET...

Subject-specific trips and visits in the following areas:

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**Physics/Maths** – theme park trip to develop kinematics and mechanics

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**Physics/Engineering** – residential trip to Cern in Geneva, Switzerland, to develop understanding of particle physics and cutting-edge engineering

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**Biology** – residential field trip to develop ecology techniques

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**Chemistry** – a university residential with industry visits

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**Product Design** – a trip to London to visit the Design Museum, local trips to areas of design interest

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**Engineering** – industry visits to experience production and manufacturing processes across sectors

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**An additional summer enrichment trip abroad** with your peers including outdoor activities

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“The Headteacher is a strong leader. She has built a popular and successful school...”

OFSTED 2018



YOUR JOURNEY  
TO SUCCESS  
THROUGH IKB

# CAREER PATHWAY EXAMPLES



## Architecture & the Built Environment



**Key Subjects:**  
Maths, Science &  
Technology



Core/A level Maths and  
a mix of BTEC  
& A levels



University, Higher  
Apprenticeship or  
Employment



Opening up your  
career as an  
architect, civil  
engineer, surveyor  
and more.



## Design Engineering



**Key Subjects:**  
Maths, Science &  
Technology



Core/A level Maths and  
a mix of BTEC  
& A levels



University, Higher  
Apprenticeship or  
Employment



Opening up your  
career as a CAD  
engineer, IT  
developer, robotics  
engineer and more.



## Digital Engineering



**Key Subjects:**  
Maths, Science &  
Technology



Core/A level Maths and  
a mix of BTEC  
& A levels



University, Higher  
Apprenticeship or  
Employment



Opening up  
your career as  
an interactive  
designer, network  
designer, systems  
engineer and  
more.



## Science & Medicine



**Key Subjects:**  
Science, Maths,  
English



Core/A level Maths  
& A levels



University or  
Medical School



Opening up careers  
as a chemical/  
biological engineer,  
dentist, doctor,  
physiotherapist,  
research scientist,  
vet and more.

# EMPLOYER ENGAGEMENT

An impressive array of employers are working in partnership with IKB Academy contributing their own unique skills and knowledge to the life of our students.

Partnerships with employers resonates through the ethos and atmosphere of the school which fosters a culture of aspiration and opportunity.

Our Employer Engagement team develop links with key local

and national businesses within the Science, Technology and Engineering sectors. These links influence enrichment opportunities, employability and study skills. These provide a strong basis for future study at university or higher apprenticeships.

In addition, our Employer Engagement team work with students to develop CV writing, UCAS applications, job applications and vital communication skills for the workplace.

“Having the engagement from the IKB students... is a really powerful opportunity that should not be missed”

Clive Johnson,  
Ministry of Defence





## EMPLOYER PARTNERS

**We are proud to be working in partnership with the following organisations:**

- AHR Architects
- Arup
- Atkins
- Avon Valley Railway
- Bath and North East Somerset Council
- Bath University
- BBA Architects
- BMT Defence Services
- Bristol Panel Formers
- Bristol Rugby Community Foundation
- Buro Happold
- Campbell Reith
- CH2M
- Complete Telecom Solutions
- Dorothea Restoration
- Dribuild
- DS Machining
- Enlightened Lighting
- Intertek
- Jaguar
- Keymac
- Kier Construction
- Land Rover
- Lionbridge
- McBraida
- Mercedes-Benz
- Ministry of Defence
- Motaparts Downend
- Network Rail
- Robbin Engineering
- Sir Robert McAlpine
- Sitec
- Sustrans
- Trust Ford
- Underfall Boat Yard
- Waitrose

If you have a strong link within industry and have the capacity to offer a work placement to one of our students, please contact: [cbarclay@ikbacademy.org.uk](mailto:cbarclay@ikbacademy.org.uk)





If you would like to subscribe to our newsletter please complete this form.

Name

Address

Postcode

Tel

Email

Parent/Carer

Student

WE CAN'T WAIT TO MEET YOU...

Affix  
stamp  
here

**IKB Academy**

68 Bath Road

Keynsham

Bristol

BS31 1SP



# TAKING LEARNING TO A WHOLE NEW LEVEL

A photograph of the IKB Academy building facade, featuring large, stylized, metallic letters spelling "IKB" mounted on a light-colored wooden cladding. The building has large windows and a modern architectural style. A red semi-circular graphic is overlaid on the bottom half of the image.

IKB

Leading  
the way



**WELLSWAY**  
MULTI ACADEMY TRUST

[www.wellswaymat.com](http://www.wellswaymat.com)

IKB Academy, 68 Bath Road,  
Keynsham, Bristol BS31 1SP

T: 0117 916 1025

E: [enquiries@ikbacademy.org.uk](mailto:enquiries@ikbacademy.org.uk)

[www.ikbacademy.org.uk](http://www.ikbacademy.org.uk)

IKBAcademyKeynsham

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