



STEM & ENGLISH FOR SCIENCE



“For students who are interested in how science, technology, engineering and mathematics can be used creatively to solve problems. Students combine STEM with English to improve their accuracy and fluency in an engaging environment. Develop the skills you need to be a world-class STEM professional. Think critically and work in teams to find solutions to real-world problems. Your English tuition will be provided by Stafford House”



CAMBRIDGE, UK

WHAT'S INCLUDED:



TUITION

Workshop based study will be facilitated by light, quick content tuition. The course will incorporate projects as well as group work to apply theory and students will work towards a final presentation. Academic English will help to improve your final presentation.



LAB WORKSHOPS

Practical lab workshops are a key element of our STEM course and will allow theory learnt to be put into practice.



ACTIVITIES

We offer a variety of onsite and offsite activities. Our activities provide opportunities for students to have a fun and make international friends.



EDUCATIONAL VISITS

Our educational visits provide the perfect complement to lectures and workshops and provide a real world perspective to our courses. Visits may include the National Space Centre, The Science Museum and Life in Motion at the IMAX.



EXCURSIONS

Full day excursions allow students to really get to know the UK. We use major destinations such as London as a classroom, where students will find creative and cultural information through guided walks and visits to museums and other places of interest.



CERTIFICATE

Awarded for the successful completion of the course.

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INNOVATION AND CONVERSATION

COURSE OVERVIEW

Participants will take part in lectures, workshops and science-based English lessons as well as visits to local places of relevant interest. Lectures will cover subjects such as a physics masterclass and will also feature guest lecturers. Potential workshops include topics such as Lego Robotics, rockets and combustion and coding. Students will also take part in practical lab-work demonstrations to put the theory into practice. Visit destinations may include the Science Museum, National Space Centre or Bletchley Park. English lessons will develop each of the four skills: speaking, listening, reading and writing as well as knowledge of scientific vocabulary and grammar necessary to present their final projects in appropriate English.

PROGRAMME OUTCOMES

You will:

- Understand how STEM subjects solve real-life problems
- Develop practical skills in and outside of the lab
- Demonstrate your skills in a supportive environment
- Improve your ability to work as part of a team

ACTIVITIES & EXCURSIONS

One full-day excursion per week is included. Destinations may include London, Warwick Castle or Canterbury. The onsite activities programme is both fun and varied and has something that will interest both creative and sporty students alike. Each day will end with an energetic evening activity which encourages students to socialise with their new international friends. Evening activities are varied and fun and may include discos, talent shows and international evenings.

COURSE INFORMATION

CLASS SIZE: Maximum 15

AGE RANGE: 14 - 17

COURSE LENGTH: 2 weeks

**ACADEMIC REQUIREMENTS/
LANGUAGE LEVEL:** Upper intermediate
B2 level
recommended

START DATES: 02/07/23
16/07/23

FEES: £2,940.00 (2 weeks)

SAMPLE PROGRAMME

WEEK 1		MORNING	AFTERNOON	EVENING
		09.00 - 12.00	13.00 - 16.30	19.30 - 22.00
SUN		Arrival at accommodation and induction from house parents		Welcome Evening & Ice Breaker Activities
MON		Lesson: Group Building - Badge making + Periodic table jigsaw puzzle	Lesson: Formation of oxygen using hydrogen peroxide. Study the effect of different catalyst in the production of oxygen.	Welcome Disco or Drama Workshop
TUES		Lesson: Group Building - Egg Drop Challenge	Lesson: Xenobiology- Rat dissection and chicken feet	"Who wants to be a Millionaire?" Quiz Night
WEDS	BREAKFAST	Workshop: Woosh bottle experiment, Canon fire experiment	LUNCH Lesson: Testing different fuels using spirit burner and calorimeter	DINNER International Night
THUR		Local Visit: Computing History Museum	Lesson: Students will build their own game	Casino Night or English Conversation Club
FRI		Lesson: National Space Academy Masterclass	Lesson: How we get to space: forces, motion and gravity	Beach Party Disco or Sports
SAT		Included Full Day Excursion e.g. London, The Science Museum (Task - to compare life under pressure in the ocean with life in zero pressure in space) & Life in Ocean (IMAX)		Chill Out Evening including Films, Popcorn & Board Games

WEEK 2		MORNING	AFTERNOON	EVENING
		09.00 - 12.00	13.00 - 16.30	19.30 - 22.00
SUN		Local Visit: a Museum in Cambridge		Presentation preparation for Final Presentation- Group work and Academic Research
MON		Local Visit: Bletchley Park and National Computing History Museum	Lesson: Go back in time to an 80s classroom and build an understanding of programming languages by creating customisable games on BBC Micros.	Fancy Dress Disco or Arts & Crafts e.g. Graffiti Design
TUES		Group Building: Marshmallow tower	Lesson: Testing salt for anion and cation. Silver mirror test + copper oxide and magnesium experiment	Game show Night
WEDS	BREAKFAST	Workshop: Metal reactivity: copper + nitric acid	LUNCH Lesson: Comparing material and element experiment + the thermite reaction between aluminium and iron oxide	DINNER "Cambridge's Got Talent!" Talent Show
THUR		Group Building: Roller coaster	Lessons: Heart dissection + Strawberry DNA	Murder Mystery Activity
FRI		Local Visit: National Space Centre	Local Visit: National Space Centre	Masked Ball Disco or Sports
SAT		Included Full Day Excursion: Canterbury & Walking Tour + Cathedral entrance		Chill Out Evening including Films, Popcorn & Board Games
SUN		Departure		