STEM & English for Science

CATS
CAMBRIDGE

"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 - Marshmallow Tower & Egg Drop Challenge	Lessons: English	Welcome Disco or Drama Workshop
TUES	Workshop: PART 1, Lego Robotics - Setting up the scenario & first tasks in Robotics	Lessons: English	"Who wants to be a Millionaire?" Quiz Night
WEDS	Workshop: PART 2 - Lego Robotics - Building Robots, group challenges and coding	Lessons: English	International Night
THUR	Visit e.g. National Space Centre	Lessons: English	Casino Night or English Conversation Club
FRI	Workshop: PART 3, Final challenge and competition winners decided	Lessons: English	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

(BREAKFAST column between MORNING and left; LUNCH column between MORNING and AFTERNOON; DINNER column between AFTERNOON and EVENING)

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	Lesson: Group Building - Marble Roller Coaster Week One Reflection	Lessons: English	Fancy Dress Disco or Arts & Crafts e.g. Graffiti Design
TUES	Workshop: Raspberry Pi - Coding a "raspberry pi" to create graphics and develop coding skills	Lessons: English	Game show Night
WEDS	Workshop: Coding, the final chapter - Putting the coding knowledge into practice- competition time!	Lessons: English	"Cambridge's Got Talent!" Talent Show
THUR	Local Visit: Bletchley Park - Alan Turing tour- history of coding and cyphers	Lessons: English	Murder Mystery Activity
FRI	Workshop: Computer Programming workshop - Raspberry Pi Challenges at Computer Museum - Contextualised Learning Workshops	Lessons: English	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		

Sample timetables are illustrative only. We reserve the right to make changes without notice.