"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"
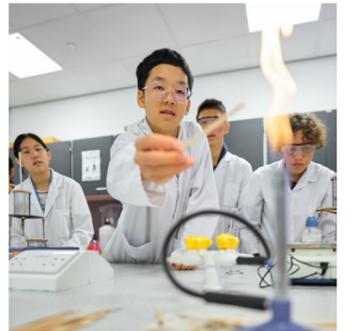
STEM & English for Science

CATS CAMBRIDGE

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, Bletchley Park and National Computing History Museum.

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.

WEB: **CATSCAMBRIDGE.COM** | EMAIL: **RESERVATIONS@STAFFORDHOUSE.COM** | PHONE: **+44 (0) 1227 787 730**

STEM & English for Science

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 Build a Volcano, The Thermite Reaction and Cauliflower Cloning. 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:**	30/06/24 14/07/24	**FEES:**	£3,234.00 (2 weeks)

ACCOMMODATION: Single en-suite room. Meals are included (breakfast, lunch and dinner)

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	BREAKFAST	Lesson: Group Building - Marshmallow Tower & Egg Drop Challenge	LUNCH	Lessons: English	DINNER	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

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	BREAKFAST	Lesson: Group Building - Marble Roller Coaster Week One Reflection	LUNCH	Lessons: English	DINNER	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.