



COURSE OVERVIEW

# Introduction to STEM

Canford



## At a Glance

### SBC at Canford

Ages: 11-15

English Level: B1+

Duration: 2 weeks

Learn how the four STEM fields – Science, Technology, Engineering, and Mathematics – are used to advance contemporary technology. Students will also participate in imaginative and cooperative workgroup design projects as part of our Time to Shine programme, where students put STEM theories and ideas into practice.

SBC Canford's STEM students study the mechanical and scientific principles that underpin the design of technology used in civil engineering, aeronautics and construction.

Discover cutting-edge technology and design is using STEM to lessen humanity's carbon footprint in Introduction to STEM at SBC Canford in 2023.

Introduction to STEM

## Sample Timetable

### WEEK ONE TIMETABLE

8:45-9:00	Morning Assembly				
9:00-10:30	<b>STEM Knowledge</b> Types of STEM	<b>STEM Knowledge</b> Experimenting with Science 1	<b>STEM Knowledge</b> Physics in STEM	<b>STEM Knowledge</b> Mathematics and STEM construction	<b>STEM Knowledge</b> Engineering in STEM
11:00-12:30	<b>Time to Shine Preparation Project</b> Technology Design Project	<b>Time to Shine Preparation Project</b> Testing the Design	<b>Time to Shine Preparation Project</b> Design Modification	<b>Time to Shine Preparation Project</b> Design Modification	<b>Week One</b> Time to Shine Ceremony

### WEEK TWO TIMETABLE

8:45-9:00	Morning Assembly				
9:00-10:30	<b>STEM Knowledge</b> STEM Models	<b>STEM Knowledge</b> Experimenting with Science 2	<b>STEM Knowledge</b> Physics for Engineering	<b>STEM Knowledge</b> Mathematics for Engineering	<b>STEM Knowledge</b> Course Review
11:00-12:30	<b>Time to Shine Preparation Project</b> Technology Design Project	<b>Time to Shine Preparation Project</b> Testing the Design	<b>Time to Shine Preparation Project</b> Design Modification	<b>Time to Shine Preparation Project</b> Design Modification	<b>Week Two</b> Time to Shine Ceremony





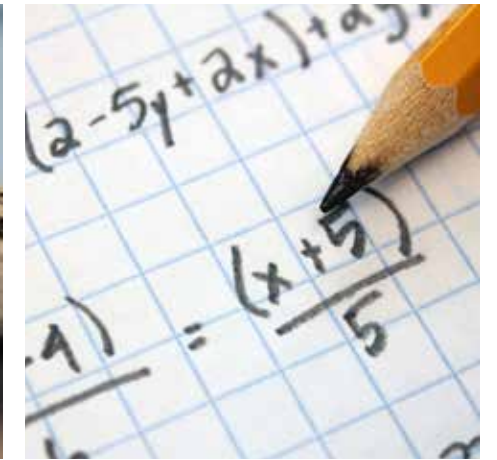
# Time to Shine

## Science in Action: The Principles of Science in Engineering

Introduction to STEM's fun and engaging Time to Shine projects will involve students utilising the principles of STEM in interactive teamwork challenges. These challenges include making weight-bearing bridges out of spaghetti, making balloon-powered miniature cars for racing, and mazes through which marbles are run. Most importantly, students will learn the scientific principles behind these constructions.

### What You'll Learn

- ✓ An overview of fundamental principles in Science, Technology, Maths and Engineering.
- ✓ How these subjects are combined together to solve modern technological challenges.
- ✓ Develop key skills in communication and teamwork.
- ✓ Take part in our exciting Science in Action Time to Shine project, in which you and your team will develop your understanding of how STEM works in action.
- ✓ Through fun and engaging lesson activities, develop and apply your 21st century skills, such as critical thinking, communication skills, collaborative skills, and original thinking.



## Book your place

A booking can be made online on our website  
[summerboardingcourses.com](https://summerboardingcourses.com)

Course places are limited so we recommend booking early. If you are booking on behalf of a family, please let us know at the time of booking.





