

STEM

SBC at Eton College



Overview

DURATION: 2 Weeks

LESSONS: 2 x 90 minutes per day; 5 days a week

LEVEL REQUIRED: Intermediate or above

TIME TO SHINE: Design and Construction Challenge

SUITABLE FOR FUTURE STUDY: All Science, Technology and Engineering Disciplines

STEM stands for Science, Technology, Engineering and Mathematics. This is an ideal course for students who wish to influence scientific and technological development in the future. STEM at Summer Boarding Courses instructs students in how to apply each of these four academic disciplines to solve real-world scientific and technological challenges, such as in the fields of robotics, engineering, and technological design. As Science, Technology, Engineering and Mathematics are integrated together in the course syllabus, students will develop informed values and attitudes with regards to how each discipline contributes to the biological, technological and physical world.

Course Objectives

- To introduce core concepts in Science, Technology, Engineering and Mathematics
- To develop an awareness of how the above disciplines interact when applied in commercial, social and environmental design and to apply STEM learning in practical projects
- To develop key transferable skills in communication and collaboration
- To improve all-round confidence in using English communicatively

Course Schedule

Week 1	Week 2
1.1 Course Introduction 1.2 STEM: An Overview	6.1 Science and Experiments (2) 6.2 Collaborative STEM Project Work
2.1 Science and Experiments 2.2 Introducing the STEM Project	7.1 Physics, Mathematics and Engineering (2) 7.2 Collaborative STEM Project Work
3.1 Physics, Mathematics and Engineering 3.2 Collaborative STEM Project Work	8.1 Robotics and Technology (2) 8.2 Collaborative STEM Project Work
4.1 Robotics and Technology 4.2 Collaborative STEM Project Work	9.1 Future STEM Study 9.2 Collaborative STEM Project Work
5.1 Time to Shine Ceremony 5.2 Review	10.1 Time to Shine Ceremony 10.2 Review

Please note the above is given as an example, and is subject to change.