Mathematics
SBC at Eton College

Overview

DURATION: 2 Weeks
LESSONS: 2 x 90 minutes per day; 5 days a week
LEVEL REQUIRED: Intermediate and above.
SUITABLE FOR: Students interested in pursuing future study in: all Mathematics disciplines; Natural Sciences; Formal Sciences; Engineering; Computer Sciences.

Mathematics students at SBC Eton will focus on both Pure and Applied Mathematics. Pure Mathematics is study of mathematics in the abstract; how numbers and calculations can be analysed to reveal their fundamental elements. Applied Mathematics is how we can use numbers and calculations in real-world situations, such as in science, medicine and engineering. Subjects studied in the course include: algebraic systems, geometry, calculus, probability, and Newtonian dynamics. As all lessons are conducted in English in a multinational environment, students will also be able to develop their English language skills.

Course Objectives

- To develop a broad, introductory, understanding of Pure and Applied Mathematics
- To develop an understanding of the uses of Pure Mathematics
- To develop an understanding of the real-world applications of Applied Mathematics
- To develop key transferable skills in researching, public speaking and presenting.
- To develop communicative and collaborative skills in using English

Course Schedule

Week 1	Week 2
1.1 Course Introduction 1.2 Collaborative Project Work	6.1 Applied Maths: Geometry and Measures 6.2 Collaborative Project Work
2.1 Pure Maths: Numbers 2.2 Collaborative Project Work	7.1 Applied Maths: Statistics 7.2 Collaborative Project Work
3.1 Pure Maths: Algebra 3.2 Collaborative Project Work	8.1 Applied Maths: Working with data 8.2 Collaborative Project Work

4.1 Pure Maths: Probability 4.2 Collaborative Project Work	9.1 Applied Maths: Algorithms 9.2 Collaborative 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.