

Year 13 Advanced Mathematics Problem Solving and STEP Preparation Course 2025/2026.

Course aims and description.

• The course, which offered gratis, is suitable for students in either of the following categories:

1. who intend to pursue an undergraduate degree in a mathematical subject.

2. who intend to sit one of the STEP examinations in summer 2026

3. who enjoy solving non-routine mathematical problems

■ The course is calculator free.

■ The year 13 course consists of ten classes each of 1.5 hours duration (4.30

to 6 pm on a Monday), in university venues between September 2025 and March 2026. The STEP preparation course will be scheduled between March 2026 and May 2026.

• Preparatory reading material will be given to students in order that they can have the necessary knowledge of the subject matter of each problem class.

■ The maximum intake is 25 students.

■ To apply for places in the course or for further enquiries contact: mathsor@le.ac.uk

■ University venues will be arranged in due course and enrolled students informed.

• The year 13 course schedule

- 1. Algebra 1 Sept 15
- 2. Trigonometry Sept 22
- 3. Differentiation Oct 6
- 4. Coordinate Geometry Nov 3
- 5. Algebra 2 Nov 17
- 6. Inequalities Dec 8
- 7. Sequences and Series Jan 12
- 8. Exponentials and Logarithms 19
- 9. Vector Geometry Feb 9
- 10. Curve Sketching March 2

• The STEP preparation course schedule

Dates between March and May 2026 to be confirmed.