Curriculum Intent

A-Level Mathematics will enable students to develop:

- Recall or recognition of mathematical facts, concepts and techniques, to select and apply to a variety of situations in the real world.
- Mathematical language and use notation confidently.
- Logical processes to devise and implement a solution strategy to previously unseen unstructured challenging problems.
- Interest and enthusiasm in the subject and be inspired to investigate the power of Mathematics beyond the scope of the A-level course

o What am I studying this year and how and when will I be assessed?

Knowledge & Skills	Time of Year	Assessment	Homework
Unit P16 – Circles (covered in Summer Term Y12) Unit P15 – Vectors Unit P17 – Integration 3 Unit P18 – Trigonometry 4 Unit P19 – Parametric equations Unit P20 – Exponentials 2 Unit P21 – Proof Unit P22 – Binomials 2 Unit P23 – Differentiation 4 Unit S5 – Normal distribution Unit S6 – Statistical diagrams Unit M5 – Kinematics with vectors Unit M6 – Projectile motion	Autumn Term	• September 2023 – Online Skills Quiz Year 12 recall • October 2023 October mocks • November 2023 – Test on S1 to S5	Homework is set in Maths to give students opportunity for independent practice on key skills and current content to secure knowledge. Students will be set weekly online skills tests and weekly exam-style question worksheets as well as homework from each of their lessons.
Unit P24 – Functions Unit P25 – Numerical methods Unit P26 – Modelling Unit S7 – Distribution applications Unit S8 – Sampling and Large Data Set Unit M7 – Variable acceleration Unit M8 – Moments	Spring Term	• February 2024 - Mechanics Mock Test on M1 to M7 • February/March 2024 February Mocks	
Exam technique, consolidation, problem solving, past papers	Summer Term	Six mini-assessments to be sat weekly in lessons after Easter (topics to be announced weekly) June – A-Level External Exams	

Year 13 Assessment Dates: w/c 30th October	**Year 13 Assessment Dates: w/c 19th February**
Your October mock will include units P1 to P19, S1 to S5, M1 to M5	Your February mock series will consist of a full set of A-Level Papers covering all units (one pure paper to be sat in mock week and a further pure as well as an applied paper, to be sat in the following weeks)

Independent Study (10+ hours a fortnight expected)

To support your learning

- Integral Online Tasks
- Weekly Exam Question Worksheets
- Bridging work to ensure GCSE content is secure
- Kerboodle review and Assessment Exercises at end of each chapter (see PLC for Kerboodle links)
- Mymaths.co.uk lessons and 'homework' tasks. Use your personal login to access these.
- Integralmaths.org – resources, exercises with solutions, and auto marking tasks. Use your personal login to access these.
- Exam questions & practice questions available at the end of each unit

Marking Abbreviations **(More detail on guidance sheet)**	**Students will demonstrate pride in their work by:**
1SPL — Use 1 Step Per Line CON — Missing or incorrect connectives N — Notation ST — Missing statement R — Rounding	• Diagrams, graphs, drawings should all be done in pencil • Mark work in a different colour