

Maths Higher Tier Year 11 Plan

Dates for GCSE Mathematics:

Maths Paper 1 (Calculator) - Friday 20th May

Maths Paper 2 (Non-calculator) - Tuesday 7th June

Maths Paper 3 (Calculator) - Monday 13th June

Week commencing:	Focus in lessons:	Revision/Intervention:
14 th February	Lesson 1: Iterative methods Lesson 2: Extending trigonometry – graphs of $y=\sin(x)$, $y = \cos(x)$, exact values Lesson 2: Extending trigonometry – graphs of $y=\sin(x)$, $y = \cos(x)$, exact values	
28 th February	Lesson 1: Transformations of graphs 1 Lesson 2: Transformations of graphs 2 Lesson 1: Equation of a circle Lesson 2: Equation of parallel and perpendicular lines (link to circles)	Arithmetic with fractions.
7 th March	MOCK EXAM WEEK	
14 th March	Lesson 1: Congruency 1 Lesson 2: Congruency 2 Lesson 3: Similar Shapes Lesson 4: Length, Area, Volume Scale Factor (LAV tables)	Intervention – response to mocks CAMNAT/Art sessions – Exam practice/identified key topic
21 st March	Lesson 1: Speed, distance, time 1 Lesson 2: Area under Speed/Time graphs. Lesson 3: Gradient of Speed/Time graphs. Lesson 4: Mass, density, volume (combining the above)	Intervention – response to mocks CAMNAT/Art sessions – Exam practice/identified key topic
28 th March	Lesson 1: Working with surds 1 Lesson 2: Working with surds 2 Lesson 3: Quadratics and completing the square 1 Lesson 4: Quadratics and completing the square 2	Intervention – response to mocks CAMNAT/Art sessions – Exam practice/identified key topic
EASTER HOLIDAYS WEEK 1		Attend holiday intervention sessions at school. Dates tbc.
EASTER HOLIDAYS WEEK 2		Attend holiday intervention sessions at school. Dates tbc.
18 th April	Lesson 1: Growth and Decay Lesson 2: Direct and Inverse proportion Lesson 3: Probability 1 – Probability tree diagrams	Intervention – response to mocks CAMNAT/Art sessions – Exam practice/identified key topic
25 th April	Lesson 1: Probability 2 – Venn diagrams	Exam technique and practice

	Lesson 2: Inequalities 1 – solving linear, listing integers, representing Lesson 3: Inequalities 2 – Regions on graphs Lesson 4: Algebraic Proof	
2 nd May	Lesson 1: Angles in Polygons Lesson 2: Bearings. Lesson 3: Circle Theorems	Exam technique and practice
9 th May	Lesson 1: Standard Form calculations Lesson 2: Decimal multipliers, compound interest Lesson 3: Reverse percentages Lesson 4: Final exam technique preparations	Exam technique and practice
16 th May	Lesson 1: Final exam technique preparations Lesson 2: Final exam technique preparations Lesson 3: Final exam technique preparations Lesson 4: Final exam technique preparations	Exam technique and practice

Starter topics to include:

- FDP arithmetic
- Laws of indices
- Quadratics (factorise, solve, sketch, use the formula)
- Recurring decimals to fractions
- Estimating, rounding
- Rearranging formulae
- Angles in parallel lines
- Area and circumference of circles
- Pie Charts
- Cumulative Frequency graphs
- Probability (sample space)
- Direct/Inverse proportion
- Reverse percentages
- Forming and solving equations in context
- Transformations