

Year 10 Maths

Our Year 10 Mathematics course follows the UK Higher GCSE and IGCSE Schemes of Work. The course is flexible for students, and student can follow the full 32-week teaching programme or pick and choose topics they need extra support with. Homework will be a series of worksheets for students, focusing on GCSE and IGCSE Higher Mathematics problems.

Term 1

Lesson 1	Percentages	<ul style="list-style-type: none">• Decimal and Percentages
Lesson 2	Percentages	<ul style="list-style-type: none">• Solving Problems with Percentages• Compound Interest
Lesson 3	Probability and Venn Diagrams	<ul style="list-style-type: none">• Mutually exclusive events• Probability Trees
Lesson 4	Probability and Venn Diagrams	<ul style="list-style-type: none">• Set Notation• Conditional probability
Lesson 5	Compound Measures	<ul style="list-style-type: none">• Density• Pressure
Lesson 6	Compound Measures	<ul style="list-style-type: none">• Speed/Time Graphs• Travel Graphs
Lesson 7	Indices & Standard Form	<ul style="list-style-type: none">• Prime Factors• Highest Common Factor/Lowest Common Multiple• Rules of Indices
Lesson 8	Indices & Standard Form	<ul style="list-style-type: none">• Standard Form• Standard Form Calculations
Lesson 9	Indices & Standard Form	<ul style="list-style-type: none">• Negative Powers• Simplifying Surds• Rationalising Denominators
Lesson 10	Trigonometry	<ul style="list-style-type: none">• Trigonometry• Trig Angles
Lesson 11	Trigonometry	<ul style="list-style-type: none">• Trig Problems• 3D Trig
Lesson 12	Graphical Functions	<ul style="list-style-type: none">• Plotting Quadratics• Cubic Graphs
Lesson 13	Graphical Functions	<ul style="list-style-type: none">• Exponential Graphs• Equations of a Circle• Tangent to a circle
Lesson 14	Non-Right-Angled Trigonometry	<ul style="list-style-type: none">• Sine Rule• Cosine Angles
Lesson 15	Non-Right-Angled Trigonometry	<ul style="list-style-type: none">• Cosine Lengths• Trig Area Triangle
Lesson 16	End of Term Test	<ul style="list-style-type: none">• End of Term Test

Term 2

Lesson 1	Accuracy	<ul style="list-style-type: none">• Accuracy Calculations• Congruence
Lesson 2	Similarity	<ul style="list-style-type: none">• Significant figure• Limits of Accuracy
Lesson 3	Similarity	<ul style="list-style-type: none">• Similar Areas• Similar calculations
Lesson 4	Inequalities	<ul style="list-style-type: none">• Inequalities• Inequations
Lesson 5	Inequalities	<ul style="list-style-type: none">• Multiple Inequalities• Plotting Linear Inequalities• Quadratic Inequalities
Lesson 6	Sequences	<ul style="list-style-type: none">• Nth term linear• Nth term quadratic
Lesson 7	Sequences	<ul style="list-style-type: none">• Geometric sequences• Generating Sequences
Lesson 8	Volume and Surface Area	<ul style="list-style-type: none">• Volume Prisms• Total Surface Area• Cylinders
Lesson 9	Volume and Surface Area	<ul style="list-style-type: none">• Spheres• Pyramids• Cones
Lesson 10	Formulae and kinematics	<ul style="list-style-type: none">• Substitution into a Formulae• Rearranging Formulae
Lesson 11	Formulae and Kinematics	<ul style="list-style-type: none">• Kinematic Formulae
Lesson 12	Sectors	<ul style="list-style-type: none">• Sector Area• Sector Formulae• Sector Perimeter
Lesson 13	Proportion and Variation	<ul style="list-style-type: none">• Highest Direct Proportion• Inverse proportion• Direct Non-Linear
Lesson 14	Circle Theorems	<ul style="list-style-type: none">• Circles Theorem 1
Lesson 15	Circle Theorems	<ul style="list-style-type: none">• Circles Theorem 2
Lesson 16	End of course test	<ul style="list-style-type: none">• End of course test