

Year 10 Maths Overview

Unit	Duration (lessons)	Learning Objectives/Outcomes
Algebra	25	<ul style="list-style-type: none"> To be able to change the subject of a formula To be able to plot and find the gradient of straight line graphs To interpret and analyse straight line graphs To interpret straight line graphs
Number	10	<ul style="list-style-type: none"> To convert a recurring decimal into a fraction To manipulate with surds
Algebra	20	<ul style="list-style-type: none"> To plot a quadratic function To solve a quadratic equation across different method Find the nth term of a quadratic sequence
Geometry & Measure	20	<ul style="list-style-type: none"> Interpret a range of scales Convert to and from a range of imperial and metric measures To be able to describe and perform transformations
Number	10	<ul style="list-style-type: none"> Convert to and from standard form To calculate with standard form
Geometry & Measure	25	<ul style="list-style-type: none"> To interpret a scale drawing To draw and describe bearings To make accurate constructions (include Loci) Use Pythagoras' theorem in 2D and 3D
Algebra	5	<ul style="list-style-type: none"> To work with co-ordinates in 3D
Geometry & Measure	5	<ul style="list-style-type: none"> To use basic trigonometry to solve problems in 2D and 3D To use advanced trigonometry to solve problems in 2D and 3D To use advanced trigonometry to find the area of a triangle
Algebra	15	<ul style="list-style-type: none"> To solve simultaneous equations using a variety of methods To solve simultaneous equations – quadratic and linear To solve inequalities and represent solutions on a number line

Geometry & Measure	10	<ul style="list-style-type: none"> To use trigonometry across topics
Algebra	10	<ul style="list-style-type: none"> To calculate an unknown quantity from quantities that vary in direct or inverse proportion To solve problems using proportionality
Geometry & Measure	25	<ul style="list-style-type: none"> To know the properties of quadrilaterals To know and use circle theorems to solve problems To calculate arc lengths and sector areas To calculate area of segments To find surface area and volumes of complex solids
Number	10	<ul style="list-style-type: none"> To calculate upper and lower bounds working with measurements To solve problems, involving geometry and measure, using upper and lower bounds