

## **Curriculum Map: Maths**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Types of number Place value Decimals Rounding Number operations Powers	Number: Measure. Directed numbers. Perimeter . Area. Frequency trees. Timetables . LCM/HCF.	Fractions Algebra	More algebra Sequences	Lines and angles  Fractions, decimal, percentage	Probability Venn 2 way tables  EOY assessment. Cumulative
Year 8	Number	Inequalities	Fractions, decimals and	Linear graphs	Scale drawings	Constructions
	Factors and powers	Algebra – brackets and	percentages	Proportion	Conversions	Bearings
	Marking with	solving	Ratio	<u>Sequences</u>	Surface area	EOY
	Working with powers	Angles in polygons and on parallel lines	Area and perimeter, inc.compound shapes	Statistics	Properties of 3D shapes	assessment. Cumulative

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9 Foundati on	Number Algebra 1	Graphs, tables and charts <b>Test</b>	Fractions, decimals and percentages	Equations, inequalities and sequences Test	Angles	Averages and range Test

Year 9 Higher	Number Algebra 1	Interpretting and representing data Test	Fractions, ratio and percentages	Angles and trigonometry  Test	Graphs	Area and volume Test
Year 10 Foundati on	Perimeter area 3D forms, surface area and volume Graphs	Transformations Ratio Test	Proportion  Pythagoras and trigonometry	Probability  Multiplicative reasoning  Test	Plans and elevations  Construction, loci and bearings	Quadratic equations and their graphs Mocks
Year 10 Higher	Accuracy and bounds  Transformations, constructions and bearings	Solving quadratic and simultaneous equations	Probability  Multiplicative reasoning	Similarity and congruence in 2D and 3D  Graphs of trig functions  Test	Further trigonometry  Collecting and further representing data	Expanding triple brackets  Graphs of circles  Mocks
Year 11 Foundati on	Circles, cylinders, cones and spheres  Fractions and reciprocals	Indices and standard form Similarity and congruence 2D	Vectors  Rearranging equations, solving simultaneous equations, graphs	MOCKS  Revision, consolidation, problem solving		
Year 11 Higher	Circle theorems  Algebraic fractions & proof, functions  Rationalising surds	Vectors, geometric proof Reciprocal and exponential graphs MOCKS	Direct and inverse proportion	MOCKS  Revision, consolidation, problem solving		
Year 12 – A level - Cohort 2022	Exponentials and logarithms  Algebraic expressions Quadratics  Data collection Measures of location & spread	Equations and inequalities Graphs and transformations Straight line graphs Circles Representations of data	Circles Differentiation  Correlation Probability  Forces and motion	Integration  Binomial expansion  Statistical distributions  Variable acceleration	Trigonometric ratios  Trig identities and equations  Hypothesis testing  Variable acceleration	Trigonometry (yr 13)  Start regressions, correlation and hypothesis testing  Resolving forces (Yr 13)

	Vectors  Displacement/t ime graphs and velocity time graphs	Constant acceleration				
Year 12 Further Maths - cohort 2022	Complex numbers, roots of polynomials. Graphs and networks.	Algebra and series. Curve Sketching.  Critical path analysis. Linear programming and game theory.	Matrices, Vectors  Abstract algebra. Group Theory (yr 13)	Vectors Integration Discrete and continuous distributions.	Matrices (yr13)  Confidence intervals and hypothesis testing.	Vectors (yr13)  Graphs and networks 2.  Critical path analysis 2.
Year 13 - A level - cohort 2021	Radians Differentiation Integration  Conditional probability  Algebraic methods	Integration  Normal distribution  Resolving forces Projectiles	Parametric Integration and differentiation. Functions and graphs  Sequences and series  Projectiles. Further Kinematics	Functions and graphs  Binomial  Further kinematics  Application of forces	Revision and consolidation	A-level Exams.
Year 13 Further Maths - cohort 2021	Complex numbers 2. Series Graphs and networks Critical path analysis	Curve sketching. Matrices  Linear programming and game theory	Vectors and Integration  Random Processes, hyptesting and t-tests	Integration and differential equations  Numerical methods	Revision and consolidation.	A-level Exams.

## **KEY to highlights**

The map shows how the topics progress throughout the curriculum over the years.

A few of the topics are highlighted so that you can see how they map onto each other.

If you follow the green highlights, you can see how statistics in year 7 progresses from looking at basic data to hypothesis testing in year 13.