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	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 7 High Ability	Number: As above and Powers and indices Standard form	Number: As above and	As above and Functions graphically	As above and Generate sequences	As above	As above **EOY assessment. Cumulative**
Year 8	Number Area and volume	Statistics, graphs and charts Expressions and equations **Units 1-4 test**	Real life graphs Decimals and ratio	Lines and angles **Units 1-7 test**	Calculating with fractions Straight line graphs	Fractions, decimals and percentages **EOY assessment. Cumulative**
Year 8 High Ability	Factors and powers Working with powers	2D and 3D solids Real- life graphs **Units 1-4**	Transformations Fractions, decimals and percentages	Constructions and loci **Units 1-7 test**	Probability Scale drawings	Graphs **EOY assessment. Cumulative**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9 Foundation	Number Algebra 1	Graphs, tables and charts **Test**	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 Foundation	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 **Test**	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 Foundation	Circles, cylinders, cones and spheres Fractions and reciprocals	Indices and standard form Similarity and congruence 2D **MOCKS**	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 Vectors Displacement/time graphs and velocity time graphs	Equations and inequalities Graphs and transformations Straight line graphs Circles Representations of data Constant acceleration	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)
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, hyp testing 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.