

Curriculum Overview for Maths

Year 7 and 8

Year 7 and 8 overview

		Term 1		Term 2	
Autumn	Year 7	Number (3 weeks) <ul style="list-style-type: none"> Properties of number Negative numbers BIDMAS 	Algebra (2 weeks) <ul style="list-style-type: none"> Basics Substitution 	Geometry (3 weeks) <ul style="list-style-type: none"> Angles Constructing triangles 	Statistics (2 weeks) <ul style="list-style-type: none"> Averages Scatter graphs
	Year 8	Number (2 weeks) <ul style="list-style-type: none"> Percentages 	Algebra (3 weeks) <ul style="list-style-type: none"> Simultaneous equations Indices 	Geometry (3 weeks) <ul style="list-style-type: none"> Pythagoras Bearings 	Statistics + Ratio (2 weeks) <ul style="list-style-type: none"> Averages Ratio (sharing, best buys)
Spring	Year 7	Number (3 weeks) <ul style="list-style-type: none"> Fractions Decimals FDP Rounding/Estimating 	Algebra (2 weeks) <ul style="list-style-type: none"> Solving equations 1 Expanding brackets 	Geometry (3 weeks) <ul style="list-style-type: none"> Metric units 2D shapes/Symmetry Area and perimeter Circles 	Statistics + Ratio (2 weeks) <ul style="list-style-type: none"> Probability Ratio (equivalence, sharing)
	Year 8	Number (2 week) <ul style="list-style-type: none"> Standard form Compound measures 	Geometry (3 weeks) <ul style="list-style-type: none"> Angles Constructions Loci 	Algebra (3 weeks) <ul style="list-style-type: none"> Factorising Expanding Algebraic fractions 	Geometry (3 weeks) <ul style="list-style-type: none"> 3D shapes Volume of cylinders SA of cylinders
Summer	Year 7	Algebra (3 weeks) <ul style="list-style-type: none"> Sequences Co-ordinates Straight line graphs 	Geometry (2 weeks) <ul style="list-style-type: none"> Transformations 	Algebra (2 weeks) <ul style="list-style-type: none"> Solving equations 2 	Geometry (3 weeks) <ul style="list-style-type: none"> 3D shapes Volume of prisms SA of prisms
	Year 8	Algebra (3 weeks) <ul style="list-style-type: none"> Straight line graphs Real life graphs 	Geometry (2 weeks) <ul style="list-style-type: none"> Enlargement Similar shapes 	Algebra (2 weeks) <ul style="list-style-type: none"> Rearranging formulae Project 	Statistics (2 weeks) <ul style="list-style-type: none"> Charts and graphs Project

Year 9

Block 1	Percentages (3)	Factorising Quadratics (4)	Pythagoras (2)	Indices (4)	Equation of a Straight Line (4)
Block 2	Surds (5)	Similarity (4)	Solving Equations (2)	Venn Diagrams (4)	
Block 3	Algebra and Expanding Brackets(2)	Factorising and Solving Quadratics (4)	Ratio (3)	Circle Theorems(7)	
Block 4	Trigonometry(5)	Bounds(4)	Transformations (4)	Real Life Graphs (1)	
Block 5	Rearranging Formulae(4)	Plotting Graphs (4)	Revision (4)	Linear Inequalities (2)	
Block 6	Inequalities and Regions(2)	Quadratic Inequalities(3)	Bearings (2)	Sine, Cosine and Area of Triangle(5)	

Year 10/Year 10 FM

Blocks							FM Extra Topics
Block 1	Factorising and solving quadratics (2)	Quadratic formula and completing the square (4)	Bearings (1)	Sine and Cosine rule (4)	Similarity – Area and Volume (3)	Ratio (3)	Sketching Quadratic Graphs (1)
Block 2	Volume (4)	Surface Area (3)	Sequences (5)	Transformations (4)			Limit of a sequence
Block 3	Probability (8)	Indices (3)	Equation of a Circle (3)	Linear Simultaneous Equations (1)			Factor Theorem Simultaneous Equations – 3 unknowns
Block 4	Quadratic Simultaneous Equations (3)	Iteration (4)	Cumulative Frequency (3)	Sectors (3)	Loci review (2)		
Block 5	Histograms (4)	Proportion (4)	Functions (2)				Pascals Triangle
Block 6	Functions(3)	Exponentials(3)					

Blocks	Topics						FM Topics	
Block 1	Algebraic Fractions (4)	Review of Trig (1) 3D Pythagoras and Trig (3)	Review of Plotting Graphs (1) Using graphs to solve quadratics (2)	Review of Functions (3)			Similarity (2)	
Block 2	Trig Graphs (4)	Review of Venn/Prob Trees (2) Conditional Probability(1)	Box Plots from raw data (1)				Trig Identities	
Block 3	Transformations of Graphs (4)	Review of Surds (2)	Vectors (4)	Review of Proportion (2)	Time Series (2)	Graphs of Rates of Change (2)		
Block 4	Graphs of Rates of Change (3)	Stem & Leaf, Two-way Tables (1) Frequency Polygons (1)	Congruency (2)	Sampling (2)	Review of Histograms (2)	Algebraic Proof (2)	Calculus (6) Matrices (4)	
Block 5	Revision							

Year 12 Pure

Autumn 1 (23)	AS C7 Algebraic Methods – Factors (3)	AS C8 Binomial Expansion (4)	AS C2 Quadratics and Discriminant(4) (2.4-2.6, 3.3, 3.5)	AS C4 Graphs (5)	AS C7 Algebraic Methods- Proof(2)
Autumn 2 (19)	AS C5 Straight Line Graphs (4)	AS C6 Circles (5)	AS C12 Differentiation (6)		
Spring 1 (20)	AS C12 Differentiation <i>cont.</i> (3)	AS C9 Trigonometry (3) (9.4-9.6)	AS C10 Trig Identities (5)	AS C14 Exponentials and logs (6)	
Spring 2 (19)	AS C14 Exponentials and logs (3)	AS C11 Vectors (5)	AS C13 Integration (6)		
Summer 1 (20)	A2 C5 Radians (5)	A2 Functions and graphs (2)			
Summer 2 (19)	A2 Functions and graphs and 6.5 (7-2=5)	A2 C6 Trig functions (5)	A2 C1 Algebraic Methods (5)		

Year 12 Stats

Autumn 1	AS S2 Location and Spread	AS S6 Statistical Distributions	AS S3 Representation of Data
Autumn 2	AS S7 Hypothesis Testing	AS S5 Probability	AS S1 Data Collection
Spring 1	Large Data Set	A2 S2 Probability (Review AS S5 Probability)-	
Spring 2	AS S4 Correlation	A2 S3 Normal	A2 S1 Regression and Correlation
Summer 1	AS M9 Constant acceleration		
Summer 2	AS M8.1 Modelling (IMT)	AS M9 Constant acceleration	-

Year 13 Pure

Year 13 Autumn 1 (16)	A2 C7 Trig compound/ modelling (7)	A2 C9 Differentiation (9.1-9.6) (5)	A2 C8 Parametric (3)
Autumn 2 (14)	A2 C8 Parametric continued. incl differentiation 9.7 (3)	A2 C9 Differentiation (9.8-end) (3)	A2 C11 Integration (11.1-11.7) (6)
Spring 1 (14)	A2 C11 Integration (11.8-11.9 Area, Parametric, Trapezium) (4)	A2 C11 Differential Equations (11.10 11.11) (3)	
Spring 2 (14)	A2 C3 Sequences and Series (6)	A2 C10 Numerical Methods (4)	
Summer 1 (7)	REVISION		

Autumn 1 7 weeks - inset x2 and remote ed day	Forces and Newton's Laws AS chapter 10	Forces at any angle A2 chapter 5	Binomial A2 Chapter 4
Autumn 2 6 weeks	Vectors A2 chapter 12	Projectiles A2 chapter 6	Application of vectors A2 8.1, 8.2
Spring 1 6 weeks – 2 weeks mocks	Y13 Mocks 2 weeks	Moments A2 chapter 4	Application of Forces A2 chapter 7.1-7.4
Spring 2 6 weeks	Application of Forces A2 chapter 7.5-7.6	Variable Acceleration AS chapter 11	Variable Acceleration A2 chapter 8.3-8.5
Summer 1 6 weeks	Revision		-