

National curriculum or specification coverage

Higher Tier Coverage

Strand	Higher Tier topics
Number	All Foundation number content; laws of indices; fractional and negative indices; standard form; surds; rationalising denominators; exact values; recurring decimals; error intervals; upper and lower bounds; calculations with bounds; proof involving number
Ratio, proportion & rates of change	All Foundation ratio and proportion; direct proportion; inverse proportion; compound growth and decay; exponential growth and decay; repeated percentage change; rates of change; compound measures; proportionality equations; more complex scale factors; algebraic proportion
Algebra	All Foundation algebra; expanding and factorising; algebraic fractions; quadratic expressions; solving quadratics by factorising; completing the square; quadratic formula; simultaneous equations including quadratic/linear; inequalities; quadratic inequalities; iteration; algebraic proof; changing the subject of complex formulae; functions; composite and inverse functions
Sequences	Linear sequences; nth term; quadratic sequences; higher-order sequences; recognising and generating sequences; recurrence relationships
Graphs & functions	Linear graphs; gradients and intercepts; parallel/perpendicular lines; quadratic graphs; cubic graphs; reciprocal graphs; exponential graphs; transformations of graphs; solving equations graphically; intersections; gradients and rates of change; functions and inverse functions
Geometry & measures	All Foundation geometry; similarity; congruence; scale factors; advanced area and volume; exact measurements; compound shapes; sectors and arcs; 3D geometry; advanced constructions and loci
Circle geometry	Circle theorems; angles in the same segment; angle at the centre; angles in a semicircle; cyclic quadrilaterals; tangent-radius relationships; alternate segment theorem; applying circle theorems in multi-step problems
Pythagoras & trigonometry	Pythagoras; SOHCAHTOA; exact trigonometric values; sine rule; cosine rule; area of a triangle using $\frac{1}{2}ab \sin C$; bearings; 3D trigonometry; solving trigonometric problems in unfamiliar contexts
Transformations	Reflection; rotation; translation; enlargement; fractional/negative scale factors; describing transformations; combinations of transformations
Vectors	Vector notation; vector addition/subtraction; scalar multiplication; magnitude; parallel vectors; ratios; geometric proofs; showing points are collinear; midpoint and ratio problems; vector geometry
Probability	All Foundation probability; tree diagrams; independent events; conditional probability; Venn diagrams; probability from algebraic information; combined probability; expected frequency
Statistics	All Foundation statistics; grouped data; cumulative frequency; box plots; histograms; comparing distributions; sampling; interpreting distributions; estimating statistics from grouped data
Algebraic & mathematical proof	Proof by deduction; proof involving algebra; proof involving sequences; proof involving divisibility; counterexamples; surds and irrational numbers
Problem solving & reasoning	Multi-step unfamiliar problems; mathematical modelling; algebraic reasoning; geometric reasoning; proof; interpreting solutions; selecting efficient methods; calculator and non-calculator problem solving

Year 9 Long Term Scheme of Learning 2026-2027
Subject: Maths (Higher)

Date	Exams/ Assessments	Learning Intentions	Core Task/Assessments
31/08/26		HCF/LCM	Assessment based on topics covered so far.
07/09/26		Ratio/Fractions	
14/09/26		Ratio Hard	
21/09/26		Product Rule for counting/Percentages	
28/09/26		Percentages	
05/10/26		Expand and factorise	
12/10/26	Assessment	Assessment	
19/10/26		Factorise/solve quadratics	
26/10/26	HALF TERM		
02/11/26		Factorising quadratics with coefficient	Formula check to check for understanding on how to apply and use formulas effectively.
09/11/26		Simultaneous Equations	
16/11/26		Inequalities / Changing the subject basic	
23/11/26		Pythagoras/trigonometry	
30/11/26		3D Pythagoras/3D trigonometry	
07/12/26	Formula check	Formula Check	
14/12/26		Angles	
21/12/26	CHRISTMAS HOLIDAY		
28/12/26			
04/01/27		Revise	PPE assessment based on topics covered so far.
11/01/27	Y9	PPE	
18/01/27	Y9	Feedback	
25/01/27		Angles in polygons	
01/02/27		Bearings (with trig)	
08/02/27		Pie charts	
15/02/27	HALF TERM		
22/02/27	Formula check	Formula check	Formula check to check for understanding on how to apply and use formulas effectively.
01/03/27		Straight line graphs	
08/03/27		Quadratic graphs/Cubic/reciprocal graphs	
15/03/27		Area, surface area, volume	

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22/03/27		Circles, cylinders, spheres	
29/03/27	SPRING BREAK		
05/04/27			
12/04/27	Assessment	Assessment	
19/04/27		Standard form	Assessment based on topics covered so far.
26/04/27		Cumulative frequency/box plots	
03/05/27		Averages from a table	
10/05/27		Averages from a table	
17/05/27		Scatter graphs/frequency polygons/stem and leaf	
24/05/27		Revise	
31/05/27	HALF TERM		
07/06/27	Y9	PPE	PPE assessment based on topics covered so far.
14/06/27	Y9	Feedback	
21/06/27		Compound measure	
28/06/27		Probability	
05/07/27		Probability trees and capture recapture	
12/07/27		Review/Prepare	