

Y7-11 Mathematics

Long Term Plan Dixons Brooklands Academy

Year 7:

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	25/8 Data & Planning Days	1/9	8/9	15/9	22/9	29/9	6/10	13/10	3/11 Reset	10/11 Data & Planning days	17/11 Intervention Weeks	24/11 Intervention Weeks	1/12
		Unit 1 Algebra Algebraic notation	Unit 1 Algebra Substitution	Unit 1 Algebra Substitution	Unit 1 Algebra Simplifying Assessments	Unit 1 Algebra Simplifying Assessments	Unit 1 Algebra Solving	Unit 1 Algebra Solving	Unit 1 Algebra Sequences	Unit 1 Algebra Sequences	Intervention Week	Unit 2 Number Place value, inequalities, and ordering	Unit 2 Number Four operations inc. decimals
Cycle 2	8/12	15/12	5/1 Reset	12/1	19/1	26/1	2/2	9/2 Trust Day	23/2	2/3 Data & Planning Days	9/3 Intervention Weeks	16/3 Intervention Weeks	23/3
	Unit 2 Number Four operations inc. decimals	Unit 2 Number Factors and multiples	Unit 2 Number Factors and multiples	Unit 2 Number Rounding and estimation	Unit 2 Number Rounding and estimation	Unit 2 Number Application	Unit 3 Geometry Unit conversion	Unit 3 Geometry Angle types, estimating, draw and measure.	Unit 3 Geometry Angle facts	Unit 3 Geometry Mixed angle facts	Unit 3 Geometry Mixed angle facts	Intervention Week	Unit 4 Fractions Fractions of amounts
Cycle 3	30/3 BH FRI	20/4 RESET	27/4	4/5 BH MON	11/5	18/5	1/6 RESET	8/6	15/6	22/6	29/6	6/7	13/7
	Unit 4 Fractions Fraction equivalence	Unit 4 Fractions Four operations with fractions	Unit 4 Fractions Four operations with fractions.	Unit 4 Fractions Compare and order fractions	Unit 4 Fractions Worded fraction problems	Unit 5 Percentages FDP conversions and Ordering FDP	Unit 5 Percentages FDP conversions and Ordering FDP	Revision and Assessments	Revision and Assessments	Unit 5 Percentages Percentages of amounts non-calculator	Unit 5 Percentages Percentage increase and decrease non-calculator	Unit 5 Percentages Percentage increase and decrease calculator	Enrichment Week



Year 8:

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	25/8 Data & Planning Days	1/9	8/9	15/9	22/9	29/9	6/10	13/10	3/11 Reset	10/11 Data & Planning days	17/11 Intervention Weeks	24/11 Intervention Weeks	1/12
		Unit 6 Probability and Statistics Probability NOT and from listing outcomes and frequency trees	Unit 6 Probability and Statistics Probability NOT and from listing outcomes and frequency trees	Unit 6 Probability and Statistics Calculating MMMR	Unit 6 Probability and Statistics Simple statistical diagrams	Unit 6 Probability and Statistics Pie charts	Unit 7 Number Index laws	Unit 7 Number Calculating with powers and roots,	Unit 7 Number Standard form	Unit 7 Number Prime factorisation, HCF and LCM	Unit 7 Number Sets and Venn diagrams	Intervention Week	Unit 8 Algebra Inequalities
Cycle 2	8/12	15/12	5/1 Reset	12/1	19/1	26/1	2/2	9/2 Trust Day	23/2	2/3 Data & Planning Days	9/3 Intervention Weeks	16/3 Intervention Weeks	23/3
	Unit 8 Algebra Complex manipulation	Unit 8 Algebra Complex manipulation	Unit 8 Algebra Forming and Solving	Unit 8 Algebra Forming and Solving Assessments	Unit 8 Algebra Expanding and factorising binomials Assessments	Unit 8 Algebra Sequences	Unit 9 2D Geometry Constructions	Unit 9 2D Geometry Angles in parallel lines	Unit 9 2D Geometry Unit conversions	Unit 9 2D Geometry Area of trapezia and compound shapes	Unit 9 2D Geometry Area of trapezia and compound shapes	Intervention Week	Unit 9 2D Geometry Circles
Cycle 3	30/3 BH FRI	20/4 RESET	27/4	4/5 BH MON	11/5	18/5	1/6 RESET	8/6	15/6	22/6	29/6	6/7	13/7
	Unit 10 Proportional Reasoning Percentage increase/decrease calc	Unit 10 Proportional Reasoning Percentage increase/decrease non calc	Unit 10 Proportional Reasoning Reverse percentages	Unit 10 Proportional Reasoning Compound interest	Unit 10 Proportional Reasoning Ratio	Unit 10 Proportional Reasoning Compound measures	Unit 11 3D Geometry Solids' properties, nets, plans, elevations	Revision and Assessments	Revision and Assessments	Unit 11 3D Geometry Surface area	Unit 11 3D Geometry Volume of prisms	Unit 11 3D Geometry Volume of cylinders,	Enrichment Week



Year 9:

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	25/8 Data & Planning Days	1/9	8/9	15/9	22/9	29/9	6/10	13/10	3/11 Reset	10/11 Data & Planning days	17/11 Intervention Weeks	24/11 Intervention Weeks	1/12
		Unit 12 Statistics Collecting and organising data	Unit 12 Statistics Interpret and compare statistical representations	Unit 12 Statistics MMMR from a discrete frequency table	Unit 12 Statistics MMMR from a discrete frequency table	Unit 12 Statistics Frequency diagrams	Unit 12 Statistics Identifying errors and misconceptions in statistical diagrams	Unit 13 Graphs and Proportion Linear functions	Unit 13 Graphs and Proportion Direct proportion	Unit 13 Graphs and Proportion Inverse proportion	Unit 13 Graphs and Proportion Scale	Intervention Week	Unit 14 Algebraic Expressions Sequences
Cycle 2	8/12	15/12	5/1 Reset	12/1	19/1	26/1	2/2	9/2 Trust Day	23/2	2/3 Data & Planning Days	9/3 Intervention Weeks	16/3 Intervention Weeks	23/3
	Unit 14 Algebraic Expressions Expanding	Unit 14 Algebraic Expressions Factorising	Unit 14 Algebraic Expressions Solving	Unit 14 Algebraic Expressions Solving	Unit 14 Algebraic Expressions Transposing Formulae Assessments	Unit 14 Algebraic Expressions Transposing Formulae Assessments	Unit 15 2D Geometry Constructions and Loci	Unit 15 2D Geometry Angles in polygons	Unit 15 2D Geometry Congruency and Similarity	Unit 15 2D Geometry Arcs and sectors	Intervention Week	Unit 16 Algebra Graphs Form and solve inequalities	Unit 16 Algebra Graphs Graphing inequalities
Cycle 3	30/3 BH FRI	20/4 RESET	27/4	4/5 BH MON	11/5	18/5	1/6 RESET	8/6	15/6	22/6	29/6	6/7	13/7
	Unit 16 Algebra Graphs Simultaneous equations	Unit 16 Algebra Graphs Simultaneous equations	Unit 16 Algebra Graphs Quadratic graphs	Unit 16 Algebra Graphs Other algebraic graphs	Unit 17 Triangles and Transformations Pythagoras' theorem inc. 3D	Unit 17 Triangles and Transformations Pythagoras' theorem inc. 3D	Unit 17 Triangles and Transformations Trigonometry	Revision and Assessments	Revision and Assessments	Unit 17 Triangles and Transformations Trigonometry (inc. graphs)	Unit 17 Triangles and Transformations Reflection, translation, rotation, and positive enlargement	Unit 17 Triangles and Transformations Enlargement, inc. negative, fractional, and mixed transformations	Enrichment Week



Year 10:

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
	25/8 Data & Planning Days	1/9	8/9	15/9	22/9	29/9	6/10	13/10	3/11 Reset	10/11 Data & Planning days	17/11 Intervention Weeks	24/11 Intervention Weeks	1/12
Cycle 1		Unit 17 Triangles and Transformations Pythagoras' theorem inc. 3D	Unit 17 Triangles and Transformations Pythagoras' theorem inc. 3D	Unit 17 Triangles and Transformations Trigonometry	Unit 17 Triangles and Transformations Trigonometry (inc. graphs)	Unit 17 Triangles and Transformations Reflection, translation, and rotation	Unit 17 Triangles and Transformations Enlargement, inc. negative and fractional	Unit 17 Triangles and Transformations Mixed transformation	Unit 18 Probability and Statistics Experimental probability and Probability of combined events	Unit 18 Probability and Statistics MMMR from a frequency table	Intervention Week	Unit 18 Probability and Statistics Cumulative frequency and box plots	Unit 18 Probability and Statistics Compound measures
	8/12	15/12	5/1 Reset	12/1	19/1	26/1	2/2	9/2 Trust Day	23/2	2/3 Data & Planning Days	9/3 Intervention Weeks	16/3 Intervention Weeks	23/3
Cycle 2	Unit 19 Algebra Graphs Line segments	Unit 19 Algebra Graphs Equation of a line from coordinates	Unit 19 Algebra Graphs Parallel and perpendicular lines	Unit 19 Algebra Graphs Sketching quadratics Gradient of and area under curves	Unit 19 Algebra Graphs Gradient of and area under curves Assessments	Unit 20 Limits and 3D Geometry Estimation Assessments	Unit 20 Limits and 3D Geometry Bounds of accuracy	Unit 20 Limits and 3D Geometry Bounds of accuracy	Unit 20 Limits and 3D Geometry Volume and S.A	Unit 20 Limits and 3D Geometry Volume and S.A	Intervention Week	Unit 20 Limits and 3D Geometry Plans and Elevations	Unit 20 Limits and 3D Geometry 3D Geometry Applications
	30/3 BH FRI	20/4 RESET	27/4	4/5 BH MON	11/5	18/5	1/6 RESET	8/6	15/6	22/6	29/6	6/7	13/7
Cycle 3	Unit 21 Probability Understanding and using sampling	Unit 21 Probability Outcomes inc. product rule and sample space	Unit 21 Probability Venn diagrams	Unit 21 Probability Probability of combined events	Unit 21 Probability Conditional probability	Unit 22 Number Index laws inc. equations, fractional and negative	Unit 22 Number Standard form calculations	Revision and Assessments	Revision and Assessments	Unit 22 Number Interest inc. growth and decay	Unit 22 Number Surds	Unit 22 Number Surds	Unit 22 Number Ratio



Year 10 Tailored Approach:

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
	25/8 Data & Planning Days	1/9	8/9	15/9	22/9	29/9	6/10	13/10	3/11 Reset	10/11 Data & Planning days	17/11 Intervention Weeks	24/11 Intervention Weeks	1/12
Cycle 1		Unit 17 Triangles and Transformations Pythagoras' theorem	Unit 17 Triangles and Transformations Pythagoras' theorem inc. 3D	Unit 17 Triangles and Transformations Trigonometry	Unit 17 Triangles and Transformations Trigonometry	Unit 17 Triangles and Transformations Reflection, rotation, translation,	Unit 17 Triangles and Transformations Enlargement (inc. negative and fractional)	Unit 17 Triangles and Transformations Mixed transformations and describing	Unit 18 Statistics MMMR from raw and grouped data, compare data sets	Unit 18 Statistics Stem & Leaf (include calc averages), pictograms, bar charts (composite), line graphs,	Unit 18 Statistics Comparing graphs, Frequency polygons,	Intervention Week	Unit 18 Statistics Pie charts Scatter graphs
	8/12	15/12	5/1 Reset	12/1	19/1	26/1	2/2	9/2 Trust Day	23/2	2/3 Data & Planning Days	9/3 Intervention Weeks	16/3 Intervention Weeks	23/3
Cycle 2	Unit 19 Algebra Graphs Co-ordinates, mid-point, and end points, plot linear	Unit 19 Algebra Graphs Line segments, state the gradient, and y-intercept and calculate given a graph.	Unit 19 Algebra Graphs Gradient, and y-intercept and calculate given a graph and given co-ordinates	Unit 19 Algebra Graphs Parallel lines and quadratic graphs	Unit 20 Limits and 3D Geometry Rounding and estimating Assessments	Unit 20 Limits and 3D Geometry Estimating complex calculations and error intervals Assessments	Unit 20 Limits and 3D Geometry Congruency, similar shapes, 3D properties and nets	Unit 20 Limits and 3D Geometry Plans and elevations, converting metric units, area of 2D shapes	Unit 20 Limits and 3D Geometry Area of compound 2D shapes	Unit 20 Limits and 3D Geometry Circumference and arc length	Intervention Week	Unit 20 Limits and 3D Geometry Area of circles and sectors	Unit 20 Limits and 3D Geometry Surface Area of 3D shapes
	30/3 BH FRI	20/4 RESET	27/4	4/5 BH MON	11/5	18/5	1/6 RESET	8/6	15/6	22/6	29/6	6/7	13/7
Cycle 3	Unit 20 Limits and 3D Geometry Volume of 3D shapes, converting area and volume measures	Unit 21 Probability List outcomes, product rule, scales, single events, not happening, experimental,	Unit 21 Probability Expected frequency, Sampling, probability of combined events (frequency trees and two-way tables)	Unit 21 Probability Probability of combined events (sample space) Probability of combined events including conditional (and/or rules) (Tree diagrams) Probability using Venn Diagrams	Unit 21 Probability Probability of combined events including conditional (and/or rules) (Tree diagrams) Probability using Venn Diagrams	Unit 22 Number Working with money. Four operations (integers and decimals)	Unit 22 Number Indices and index laws (multiply, divide, brackets, basic negative).	Revision and Assessments	Revision and Assessments	Unit 22 Number Standard Form	Unit 22 Number Factors, multiples, HCF and LCM, Prime factorisation (include HCF and LCM)	Unit 22 Number FDP equivalence (inc ordering) Four operations with fractions (inc. simplifying and converting to mixed number)	Enrichment Week



Y11 Mathematics – Higher (Set 1 and 2)

Long Term Plan 2025/2026

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
	25/8 Data & Planning Days	1/9	8/9	15/9	22/9	29/9	6/10	13/10	3/11 Reset	10/11 Data & Planning days	17/11 Intervention Weeks	24/11 Intervention Weeks	1/12
Cycle 1	INSET	Fractional and negative indices Problem solving with indices	Functions, composite and inverse iteration	Upper and lower bounds Error intervals, truncation, application of bounds Standard form 4 ops	Equation of a straight line Parallel lines Perpendicular lines Graphing inequalities	Quadratic graphs Cubic and reciprocal graphs Exponential and circle graphs Tangent to a circle	Mixed Transformations Enlargement (negative and describing) Combined transformations Describe transformations	Histograms Averages from tables and reverse mean	Ratio with fractions Problem-solving with ratio	Year 11 Mocks	Year 11 Mocks	Types of graph and solving simultaneous equations graphically Completing the square Sketch a quadratic by completing the square Sketch a quadratic by factorising	Algebraic Proportion Algebraic proof
	8/12	15/12	5/1 Reset	12/1	19/1	26/1	2/2	9/2 Trust Day	23/2	2/3 Data & Planning Days	9/3 Intervention Weeks	16/3 Intervention Weeks	23/3
Cycle 2	Probability trees for independent and conditional events Algebraic Trees	Quadratic simultaneous equations Quadratic inequalities	Trigonometry Area of triangle Sine rule Cosine rule	Mixed sine, cosine and area of triangle Vectors	Vectors Circle theorems inc proof	Circle theorems inc proof 3D Pythagoras 3D Trig Exact values	Exact values Trig graph transformations Graphing Transformations	Mixed Percentages Interest Compound measures – pressure, density DST with graphs Velocity-time graphs	Velocity-time graphs Gradient and area under a curve Similar shapes Similar areas	Year 11 Mocks	Year 11 Mocks	Similar volumes Area and circumference Sector area and arc length Volume/SA of pyramids and cones	Volume and SA of sphere Volume and SA of compound shapes Combinations
	30/3 BH FRI	20/4 RESET	27/4	4/5 BH MON	11/5	18/5	1/6 RESET	8/6	15/6	22/6	29/6	6/7	13/7
Cycle 3	Venn/Set notation Forming and solving equations	Congruence	Algebraic fractions										



Y11 Mathematics – Higher (Set 3)

Long Term Plan 2025/2026

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	25/8 Data & Planning Days	1/9	8/9	15/9	22/9	29/9	6/10	13/10	3/11 Reset	10/11 Data & Planning days	17/11 Intervention Weeks	24/11 Intervention Weeks	1/12
	INSET	Fractional and negative indices Product of primes, HCF/LCM Sampling Combinations	Capture/Recapture Order and convert recurring decimals Bounds (including error intervals with rounding and truncation)	Bounds Common conversions Index laws Standard form	Standard form Factorising quadratics including solving	Types of graph and linear graphs Equation of a line Parallel lines Perpendicular lines	Quadratic graphs Other graphs	Box plots Cumulative frequency Averages from tables and reverse mean	Ratio Percentages Simple and compound interest Compound measures	Year 11 Mocks	Year 11 Mocks	Direct and Inverse Proportion	Simultaneous equations Quadratic simultaneous equations
Cycle 2	8/12	15/12	5/1 Reset	12/1	19/1	26/1	2/2	9/2 Trust Day	23/2	2/3 Data & Planning Days	9/3 Intervention Weeks	16/3 Intervention Weeks	23/3
	Surds – simplifying and expanding Rationalising the denominator	Completing the square Quadratic formula	Trigonometry Pythagoras and Trigonometry 1/2abSinC Sine rule	Cosine rule Mixed sine, cosine and area of triangle Complex Ratio	Sequences	Similar shapes Functions	Functions Angles in parallel lines Angles in polygons Area and circumference	Sector area and arc length Volume and SA of prisms	Volume and SA of pyramids and cones Volume and SA of spheres DST with graphs Iteration	Year 11 Mocks	Year 11 Mocks	Compound measures FPA MDV	Transformations
Cycle 3	30/3 BH FRI	20/4 RESET	27/4	4/5 BH MON	11/5	18/5	1/6 RESET	8/6	15/6	22/6	29/6	6/7	13/7
	Exact values Velocity-time graphs inc tangent and area under curve	Graphing inequalities Algebraic proof Venn	Set notation Forming and solving equations	Histograms Algebraic fractions inc solving									



Y11 Mathematics – Foundation (Set 4-8)

Long Term Plan 2025/2026

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	25/8 Data & Planning Days	1/9	8/9	15/9	22/9	29/9	6/10	13/10	3/11 Reset	10/11 Data & Planning days	17/11 Intervention Weeks	24/11 Intervention Weeks	1/12
	INSET	Ordering FDP Product of primes, HCF and LCM	Fractions Standard form	Error intervals and truncation Simplifying expressions Expand single brackets Expand double brackets	Factorise linear expressions Solve equations	Solve equations Factorise quadratics Index laws	Inequalities Converting units	Transformations	Pie charts Stem and leaf and pictograms Scatter graphs Two-way tables	Year 11 Mocks	Year 11 Mocks	Frequency trees Probability scale and tables Listing outcomes and sample space diagrams	Sequences Basic angle theories
Cycle 2	8/12	15/12	5/1 Reset	12/1	19/1	26/1	2/2	9/2 Trust Day	23/2	2/3 Data & Planning Days	9/3 Intervention Weeks	16/3 Intervention Weeks	23/3
	Ratio Share in a ratio	Averages Averages from tables Averages from grouped frequency tables	Frequency polygons Angles in triangles and quadrilaterals	Angles in parallel lines Angles in polygons Rearranging	Percentage of an amount Percentage increase and decrease	Linear graphs Quadratic graphs	Area and perimeter of 2D shapes Area and circumference (circle, semi-circle, parts of a circle)	Area and perimeter of compound shapes with circles Volume and SA of prisms	Probability trees Pythagoras' theorem and application	Year 11 Mocks	Year 11 Mocks	DST DST with graphs MDV Trigonometry	Trigonometry mixed Trig and Pythag Equation of a line
Cycle 3	30/3 BH FRI	20/4 RESET	27/4	4/5 BH MON	11/5	18/5	1/6 RESET	8/6	15/6	22/6	29/6	6/7	13/7
	Parallel lines Similar shapes	Column Vectors Constructions with triangles and bisectors Loci	Loci Plans and elevations Simultaneous equations	Simultaneous equations Indices (fractional and negative)									

