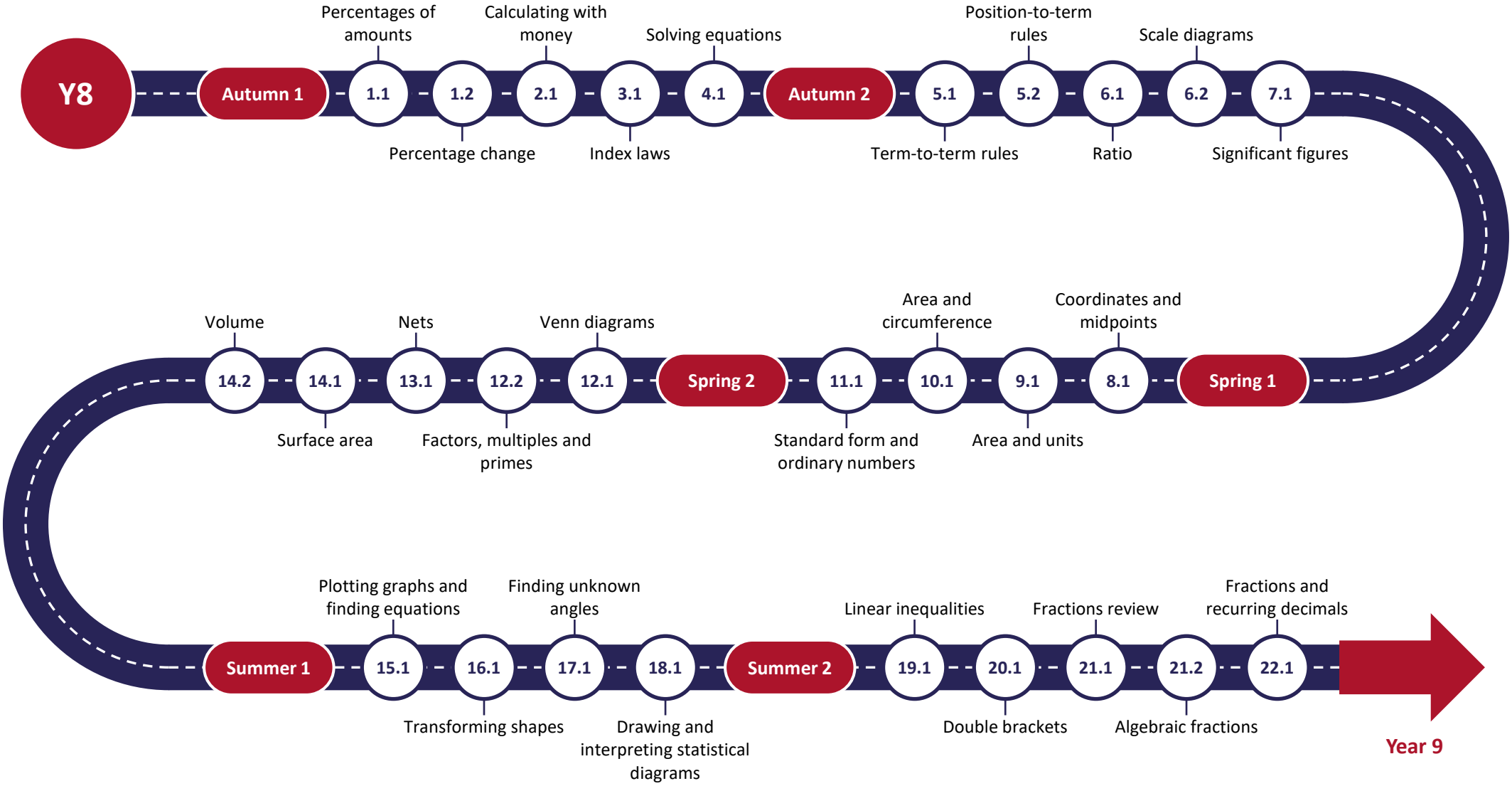
Year 8 Maths Learning Journey

Foxford School · Sparx Maths · 2026–27



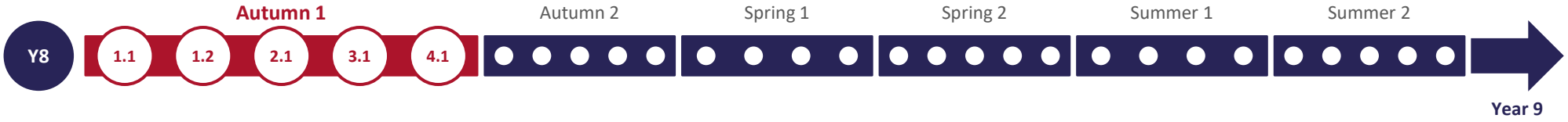
Year 8 · Autumn 1 Learning Plan

31 Aug – 23 Oct 2026 · Sparx Maths

FOXFORD

Week beginning	Unit	What I will learn (Sparx code)	Key vocabulary
31 Aug	*Baseline and settling in*		
7 Sep	**1.1 Percentages of amounts**	**M437** Finding percentages of amounts without a calculator **M905** Finding percentages of amounts with a calculator	Percentage (%) · Decimal · Multiplier · Percentage change · Percentage increase · Percentage decrease · Reverse percentages
14 Sep	**1.2 Percentage change**	**M476** Percentage change without a calculator **M533** Percentage change with a calculator	
21 Sep	**2.1 Calculating with money**	**M681** Value for money	Value for money · Unit price · Best buy · Discount · Offer/Deal · Total cost · Price per unit · Cost effectiveness
28 Sep 5 Oct	**3.1 Index laws**	**M608** Index rules with positive indices **M150** Index rules with negative indices **M120** Simplifying expressions using index laws **M568** Simplifying algebraic fractions by cancelling common factors	Index / Indices · Index laws / rules · Exponent / Power · Zero index · Same base · Reciprocal · Algebraic fraction · Cancelling (common factors)
12 Oct 19 Oct	**4.1 Solving equations**	**M401** Solving equations of the form (x+a)/b=c **M902** Solving linear equations involving brackets **M554** Solving equations with the unknown on both sides **M387** Solving equations with the unknown in the denominator **M957** Constructing and solving equations	Equation · Variable / Unknown · Linear equation · Brackets · Denominator · Like terms · Inverse operation · Unknown on both sides

Where this half term fits in Year 8



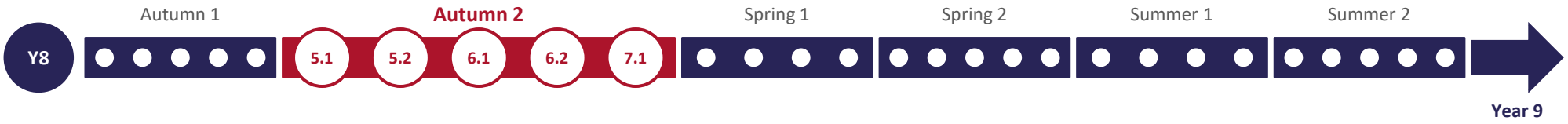
Year 8 · Autumn 2 Learning Plan

2 Nov – 18 Dec 2026 · Sparx Maths

FOXFORD

Week beginning	Unit	What I will learn (Sparx code)	Key vocabulary
2 Nov	**5.1 Term-to-term rules**	**M381** Term-to-term rules for numerical sequences **M241** Term-to-term rules for sequences of patterns	Variable / Unknown · Sequence · Term-to-term rule · Position-to-term rule · Arithmetic sequence · Common difference · Linear rule · nth term
9 Nov	**5.2 Position-to-term rules**	**M166** Substituting into position-to-term rules **M991** Position-to-term rules for arithmetic sequences **M866** Position-to-term rules for sequences of patterns	
16 Nov 23 Nov	**6.1 Ratio**	**M885** Writing and simplifying ratios **M543** Writing ratios in the form 1:n **M267** Converting between ratios, fractions and percentages **M801** Using equivalent ratios to find unknown amounts **M525** Sharing amounts in a given ratio	Ratio · Simplest form · 1:n form · Fraction · Percentage · Proportion · Unknown amount · Equivalent ratio
30 Nov	**6.2 Scale diagrams**	**M112** Drawing and interpreting scale diagrams	
7 Dec	**7.1 Significant figures**	**M994** Rounding integers using significant figures **M131** Rounding decimals using significant figures **M878** Estimating calculations	Significant figures (s.f.) · Leading digit · Placeholder · Rounding · Integer · Decimal · Truncate · Underestimate
14 Dec	*Assessment and review week*		

Where this half term fits in Year 8



Year 8 · Spring 1 Learning Plan

4 Jan – 12 Feb 2027 · Sparx Maths

Week beginning	Unit	What I will learn (Sparx code)	Key vocabulary
4 Jan	**8.1 Coordinates and midpoints**	**M622** Calculating midpoints **M311** Mixed problems: Coordinates and midpoints	Cartesian plane · Coordinates · x-coordinate · y-coordinate · Line segment · Solve algebraically
11 Jan 18 Jan	**9.1 Area and units**	**M291** Finding the area of parallelograms **M705** Finding the area of trapeziums **M728** Converting units of area	Parallelogram · Trapezium · Perpendicular height · Square units · Conversion factor · Perpendicular
25 Jan 1 Feb	**10.1 Area and circumference**	**M595** Identifying parts of circles **M169** Finding the circumference of circles **M231** Finding the area of circles	Circle · Circumference · Pi (π) · Area · Centre · Arc · Sector · Chord
8 Feb	**11.1 Standard form and ordinary numbers**	**M719** Using standard form with positive indices **M678** Using standard form with negative indices	Standard form · Positive indices · Negative indices · Significand · Power of ten · Convert to standard form · Decimal notation · Expand from standard form

Where this half term fits in Year 8



Year 8 · Spring 2 Learning Plan

22 Feb – 26 Mar 2027 · Sparx Maths

Week beginning	Unit	What I will learn (Sparx code)	Key vocabulary
22 Feb	**12.1 Venn diagrams**	**M829** Venn diagrams **M419** Probabilities from Venn diagrams	Venn diagram · Product · Prime factor decomposition · Highest Common Factor (HCF) · Lowest Common Multiple (LCM) · Probability from Venn diagrams · Mutually exclusive sets · Complement
1 Mar	**12.2 Factors, multiples and primes**	**M365** Finding the HCF and LCM using prime factor decomposition	
8 Mar	**13.1 Nets**	**M767** Properties of 3D shapes **M518** Nets of 3D shapes	3D shape · Net · Cube · Cuboid · Polygon · Prism · Pyramid · Vertex (vertices)
15 Mar	**14.1 Surface area**	**M884** Finding the surface area from a net **M534** Finding the surface area of cubes and cuboids **M661** Finding the surface area of prisms	Cube · Cuboid · Prism · Base area · Height (of prism) · Unit cube · Cubic units · Convert units
22 Mar	**14.2 Volume**	**M765** Finding the volume of cubes and cuboids **M722** Finding the volume of prisms **M465** Converting units of volume	

Where this half term fits in Year 8

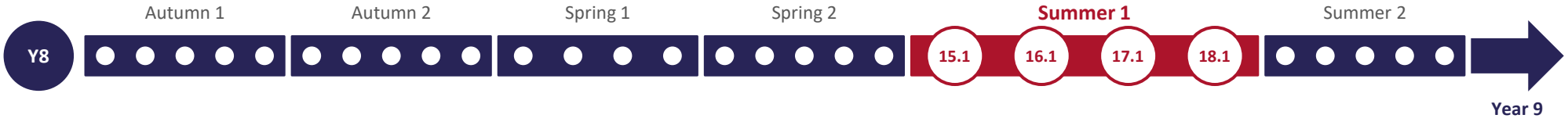


Year 8 · Summer 1 Learning Plan

12 Apr – 28 May 2027 · Sparx Maths

Week beginning	Unit	What I will learn (Sparx code)	Key vocabulary
12 Apr	**15.1 Plotting graphs and finding equations**	**M797** Plotting horizontal, vertical and diagonal lines **M932** Plotting straight line graphs **M544** Finding equations of straight line graphs	Gradient · y-intercept · x-axis · y-axis · Coordinate pair · Linear equation · Equation of a line · Parallel lines
19 Apr	**16.1 Transforming shapes**	**M139** Translation **M290** Reflection	Translation vector · Image · Object · Coordinate grid · Horizontal translation · Vertical translation · Transformation · Corresponding points
26 Apr 3 May	**17.1 Finding unknown angles**	**M679** Angles in quadrilaterals **M319** Combining angle facts **M606** Angles on parallel lines **M393** Using quadrilateral properties to find angles **M653** Angles in polygons	Opposite (vertically opposite) angles · Corresponding angles · Alternate angles · Supplementary angles · Adjacent angles · Transversal · Regular polygon · Irregular polygon
10 May 17 May	**18.1 Drawing and interpreting statistical diagrams**	**M574** Drawing pie charts **M165** Interpreting pie charts **M140** Drawing line graphs **M183** Interpreting line graphs **M648** Drawing stem-and-leaf diagrams **M210** Interpreting stem-and-leaf diagrams **U854** Finding averages from diagrams	Axis · Coordinates · Cumulative frequency · Mode · Median · Mean · Class interval · Discrete data
24 May	*Assessment and review week*		

Where this half term fits in Year 8



Year 8 · Summer 2 Learning Plan

7 Jun – 23 Jul 2027 · Sparx Maths

Week beginning	Unit	What I will learn (Sparx code)	Key vocabulary
7 Jun	**19.1 Linear inequalities**	**M384** Reading and drawing linear inequalities on number lines **M118** Solving single inequalities	Linear inequality · Strict inequality · Inclusive inequality · Number line representation · Solve · Substitute · Integer
14 Jun	**20.1 Double brackets**	**M960** Expanding double brackets	Binomial · Distributive property · Like terms · Simplify · Product · Constant · Quadratic expression · Grid method
21 Jun 28 Jun	**21.1 Fractions review**	**M645** Calculating with fractions **M619** Calculating with mixed numbers	Algebraic fraction · Factorise · Lowest common denominator · Cancel · Expression · Like terms · Non-zero denominator
5 Jul	**21.2 Algebraic fractions**	**M754** Simplifying algebraic fractions by factorising **M336** Adding and subtracting algebraic fractions	
12 Jul 19 Jul	**22.1 Fractions and recurring decimals**	**M701** Using recurring decimal notation **M922** Converting fractions to recurring decimals	Recurring notation · Repeating block · Rational number · Bar notation · Equivalent forms · Terminating decimal · Dot notation

Where this half term fits in Year 8

