

Mathematics Year 8 Curriculum Map - 2025

	Autumn Term		
Y8	Topic Title: Autumn Unit 1 Percentages Big Question: How do I find percentages of an amount? How do I increase and decrease and amount by a percentage?	Topic Title: Autumn Unit 2 Money Big Question: How do I solve different types of proportion problems?	Topic Title: Autumn Unit 3 Indices Big Question: How do I solve questions involving index laws?
Links to NC	Define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal, interpret these multiplicatively, express one quantity as a percentage of another, compare two quantities using percentages, and work with percentages greater than 100% ☑ interpret fractions and percentages as operators	Solve problems involving direct and inverse proportion, including graphical and algebraic representations	Use integer powers and associated real roots
Assessments	CFU Percentages	CFU Money	CFU Indices

Autumn Term

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Y8	Topic Title: Autumn Unit 4 Equations Big Question: How do I solve linear equations?	Topic Title: Autumn Unit 5 Sequences Big Question: How do I identify, continue and generate terms from a term to term rule for a sequence/pattern? How do I recognise patterns? How do I recognise arithmetic sequences to generate terms and find the nth term?	Topic Title: Autumn Unit 6 Ratio Big Question: How do I use factors with ratio? How do I link fractions with ratio? What are scaled drawings?
Links to NC	Use algebraic methods to solve linear equations in one variable (including all forms that require rearrangement)	Generate terms of a sequence from either a term-to-term or a position-to-term rule Recognise arithmetic sequences and find the nth term Recognise geometric sequences and appreciate other sequences that arise.	Use ratio notation, including reduction to simplest form Divide a given quantity into two parts in a given part:part or part:whole ratio; express the division of a quantity into two parts as a ratio Understand that a multiplicative relationship between two quantities can be expressed as a ratio or a fraction
Assessments	CFU Equations	CFU Sequences	CFU Ratio

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	Spring Term			
Y8	Topic Title: Spring Unit 7 Rounding Big Question: How do I use place value to help round numbers? How do I approximate and estimate accurately?	Topic Title: Spring Unit 8 Coordinates Big Question: What are mid points?	Topic Title: Spring Unit 9 Area Big Question: How do I use and apply the area formulae for different shapes? How do I convert between units of area?	Topic Title: Spring Unit 10 Circles Big Question: How do I define a circles and its parts? How do I use the formulae for perimeter, area, and volume?
Links to NC	Round numbers and measures to an appropriate degree of accuracy [for example, to a number of decimal places or significant figures] Use approximation through rounding to estimate answers	Work with coordinates in all four quadrants	Derive and apply formulae to calculate and solve problems involving perimeter, area and volume	calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes
Assessments	CFU Rounding	CFU Mid Points	CFU Area	CFU Circles

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	Spring Term			
Y8	Topic Title: Spring Unit 11 Standard Form Big Question: What is standard form? Why and how do we use standard form?	Topic Title: Spring Unit 12 Venn Diagrams Big Question: What are combined events and probability diagrams? How do I use Venn diagrams to solve LCM/HCF problems?	Topic Title: Spring Unit 13 3D Shapes Big Question: What are three-dimensional shapes? What do the net and plan views look like for three-dimensional shapes	Topic Title: Spring Unit 14 Surface Area and Volume Big Question: How do I link volume and surface area calculations to area of 2d shapes?
Links to NC	Interpret and compare numbers in standard form $A \times 10^n$ $1 \leq A < 10$, where n is a positive or negative integer or zero	Enumerate sets and unions/intersections of sets systematically, using tables, grids and Venn diagrams	Use language and properties precisely to analyse numbers, algebraic expressions, 2-D and 3-D shapes	Derive and apply formulae to calculate and solve problems involving perimeter, area and volume
Assessments	CFU Standard Form	CFU Venn diagrams	CFU 3D shapes	CFU Surface area and volume

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	Summer Term			
Y8	Topic Title: Summer Term Unit 15 Linear Graphs Big Question: What are do graphs of equations and functions look like?	Topic Title: Summer Term Unit 16 Transformations Big Question: What are plane isometric transformations?	Topic Title: Summer Term Unit 17 Angles Big Question: What are the properties of polygons? How do I apply angle facts to a variety of problems?	Topic Title: Summer Term Unit 18 Statistical diagrams Big Question: How do I interpret and show data? What are stem and leaf diagrams?
Links to NC	Recognise, sketch and produce graphs of linear functions of one variable with appropriate scaling, using equations in x and y and the Cartesian plane.	Identify properties of, and describe the results of, translations, rotations and reflections applied to given figures	Derive and use the sum of angles in a triangle and use it to deduce the angle sum in any polygon, and to derive properties of regular polygons	Construct and interpret appropriate tables, charts, and diagrams. Calculate and interpret measures of central tendency and spread, including consideration of outliers
Assessment	CFU Linear Graphs	CFU Transformations	CFU Angles	CFU Statistical diagrams

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	Summer Term			
Y8	Topic Title: Summer Term Unit 19 Inequalities Big Question: What are inequalities on a number line?	Topic Title: Summer Term Unit 20 Brackets Big Question: What are algebraic expressions?	Topic Title: Summer Term Unit 21 Algebraic Fractions Big Question: How do I use the four operations with fractions?	Topic Title: Summer Term Unit 22 Recurring Decimals Big Question: What are recurring decimals?
Links to NC	Understand and use the concepts and vocabulary of expressions, equations, inequalities, terms and factors	Simplify and manipulate algebraic expressions by taking out common factors.	Use the four operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers, all both positive and negative	Work interchangeably with terminating decimals and their corresponding fractions
Assessment	CFU Inequalities	CFU Brackets	CFU Algebraic Fractions	CFU Recurring Decimals