



MATHEMATICS: Curriculum Overview

Year 7

Half Term	Topic studied	What will I learn?	How will I be assessed?
Year 7 Autumn 1	Factors & Multiples Sequences Perimeter and Area Negative Numbers	- Identify and use factors, multiples and prime numbers. - Explore term to term rules for sequences. - Begin to use the nth term rule for a sequence. - Find the perimeter of shapes. - Find the area of common 2D shapes (Triangles, Parallelogram, trapezium). - Carry out calculations with negative numbers.	Year 7 Baseline assessment in October
Year 7 Autumn 2	Averages Equivalent Fractions Algebraic Expressions	- Find the mean median mode and range for a set of data - Find equivalent fractions - Convert between mixed numbers and improper fractions - Add and subtract fractions - Form and simplify algebraic expressions and formulae - Substitute into algebraic expressions.	Christmas Assessment
Year 7 Spring 1	Angles Decimals Linear Graphs	- Find missing angles, About a point, on a straight line, in a triangle and in a quadrilateral. - Understand place value for decimal numbers - Estimate calculations involving decimals - Add, subtract, multiply and divide decimals. - Draw graphs for simple linear relationships $y=a$, $x=a$, $y=x$ and $y=-x$	<i>Ongoing in class assessment</i>
Year 7 Spring 2	Percentages 3D shapes Introduction to probability	- Find fractions and percentages of a quantity - Recognise the names and nets of common 3D shapes - Find the volume of and surface area of cuboids - Know and use the correct vocabulary for describing probabilities. - Use the probability scale to represent simple probabilities.	Easter formal Assessment
Year 7 Summer 1	Ratio, proportion and Rates of change Symmetry Solving Equations	- Use ratio notation - Simplify ratios - Use ratios to find missing quantities - Recognise linear and rotational symmetry for a shape - Understand the properties of triangles and quadrilaterals. - Solve one and two step equations	<i>Ongoing in class assessment</i>
Year 7 Summer 2	Using Data Transformations Working With Numbers	- Draw and interpret pie charts - Use grouped and ungrouped frequency tables - Transform shapes using , Reflection, translation and rotation. - Tessellate a shape - Use powers and roots - Explore writing large numbers in standard form.	End of year exams (2 papers) Setting for Y8 will be based on performance across the year, but most heavily based on summer exam.