



SUBJECT: Curriculum Overview

Year 8

Half Term	Topic studied	What will I learn?	How will I be assessed?
Year 8 Autumn 1	Percentage Changes Graphs Correlations Congruence and Scaling	-Calculate percentage increase and decrease -Recognise graphs of a linear equation -Calculate the gradient of a linear graph -Draw simple non linear graphs -Recognise congruent shapes -Enlarge a shape by a scale factor -Use scale drawings and maps to find distances.	Autumn 1 formal assessment at end of half term
Year 8 Autumn 2	Manipulating Algebraic Expressions Working with Fractions Circles Finding Probabilities	-simplify algebraic expressions -Expand brackets -Write algebraic expressions involving powers -Add, subtract multiply and divide fractions -Define parts of a circle -Calculate the area and circumference of a circle. -Use the probability scale to represent the likelihood of an event happening. -Recognise mutually exclusive event. -Use sample spaces to calculate probabilities	Autumn 2 formal assessment at Christmas
Year 8 Spring 1	Equations and formula Proportions Applications of graphs Comparing sets of data	-solve equations with unknowns on both sides. Solve equations involving brackets and fractions -Understand direct and inverse proportion -Work out missing values for proportional relationships -Draw an interpret time graphs -Draw and interpret exponential graphs - Draw frequency diagrams -Use mean and range to compare data sets	<i>Ongoing in class assessment</i>
Year 8 Spring 2	Percentage changes Polygons Expressions and equations	-Calculate percentage increases and decreases -Understand simple interest -Calculate the original value give the result of a percentage change, -Work out the sum of the interior and exterior angles in a polygon -Work out which regular polygons tessellate -Expand brackets and factorise algebraic expressions.	Spring formal assessment at Easter
Year 8 Summer 1	Prisms and Cylinders Compound units Solving Equations graphically Pythagoras' Theorem	-Calculate the volume and surface area of prisms and cylinders -Calculate speed, density and other compound measures. -Draw graphs of quadratic equations -Solve quadratic equations using a graph. -Find missing lengths in a right angle triangle	<i>'Ongoing in class assessment</i>
Year 8 Summer 2	Working with Decimals Manipulating Brackets Trigonometric ratios	-Understand and use standard form numbers with positive and negative powers of 10. -Round decimal numbers to an appropriate degree of accuracy. -Solve problems involving decimals -Expand the product of two or more brackets -Use trig ratios to find missing sides and angles in a right angle triangle	End of year assessment 2 papers

