

Curriculum Map



Subject: Maths

Year group: Year 8

Summer 1 Summer 1 Consolidation

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content	Algebra	Statistics and Probability	Number	Number/Geometry and Measure	Geometry and Measure	Consolidation and Extension Topics
Declarative Knowledge – 'Know What'	Sequences; Rules of algebra; Using formulae and expressions; Changing the subject of the formula; Expanding brackets; Factorising expressions; Equations; Straight line graphs;	Frequency tables; Averages and range; Scatter graphs; Pie charts; Stem and leaf diagrams; Probability; Venn diagrams;	Properties of number; Prime decomposition; Rounding including significant figures; Estimation; Standard form; Fractions; Negative numbers; Use of a calculator; Percentages; Fractions, decimals and percentages	Ratio and proportion; Area and perimeter; Geometric reasoning; Angles; Units of measurement;	Circles; Compound area; Volume; Surface area; Transformations;	Constructions; Loci; Pythagoras' Theorem; Bearings; Scale Drawings; Formulae
Skills	Find and use the nth term of a linear sequence;	Calculate averages from data in a frequency table;	Learn how to state give a number as a product of its prime factors;	Solve problems using ratios;	Calculate the area and circumference of a circle;	Learn how to construct accurate diagrams; Construct the
Procedural	Simplifying algebraic	Plot and interpret	Find the HCF and LCM	Learn about properties	Calculate the area of	perpendicular bisector
Knowledge –	expressions;	scatter graphs,	of 2 numbers;	of 2D shapes including	compound shapes;	of a line;
'Know How'	Use index notation; Substitute into a range of formulae;. Solve equations to find unknown values; Plot straight line graphs; Understand the gradient and y-intercept of a straight line graph	Understand correlation and use interpolation; Draw and interpret pie charts; Calculate theoretical and experimental probabilities; Calculate the expected number of times an event will occur; Calculate probabilities from a venn diagram;	Estimate calculations by rounding to 1 significant figure; Calculate with fractions and negative numbers; Increase and decrease quantities by a percentage; Convert between and compare fractions, decimals and percentages;	angles, area and perimeter; Use angle properties to calculate missing angles; Convert between metric units of measurement;	Learn how to find the volume of a cuboid and other prisms; Learn how to calculate surface area of a cuboid; Learn how to complete all transformations on a given shape	Learn how to bisect an angle; Calculate the length of missing sides of right angled triangles; Learn how to draw, measure and calculate bearings; Make and interpret scale drawings; Change the subject of a formula
Key Questions						



Curriculum Map



Assessment	Algebra Assessment	Data Assessment	N/A	Number Assessment	End of Year	N/A
					Assessment	
Literacy/Numeracy/ SMSC/Character	Understanding and interpreting worded questions.	Understanding and interpreting worded questions.	Understanding and interpreting worded questions.	Understanding and interpreting worded questions Using correct language	Understanding and interpreting worded questions	Understanding and interpreting worded questions.
				when giving reasons.		