haggerston school

Curriculum Map: Maths KS3

	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Year 7	**Solve word problems (add and subtract)** ▪ Place value (inc. decimals) ▪ Add and subtract (inc. decimals) ▪ Estimation ▪ Perimeter ▪ Word problems	**Explain and investigate (multiply and divide)** ▪ Factors, HCF, multiples, LCM ▪ Multiply and divide (inc. decimals) ▪ Area of rectangle and triangle ▪ Calculate the mean	**Geometry** ▪ Draw, measure and name acute and obtuse angles ▪ Find unknown angles (straight lines, at a point, vertically opposite) ▪ Properties of triangles and quadrilaterals	**Fractions** ▪ Equivalent fractions ▪ Compare and order fractions and decimals ▪ Change mixed numbers to improper fractions and vice versa ▪ Fraction of a quantity ▪ Multiply and divide fractions	**Applications of algebra** ▪ Order of operations ▪ Substitution ▪ Simplifying algebraic expressions ▪ Solve word problems with expressions ▪ Sequences (term-to-term, not nth term)	**Percentages and pie charts** ▪ Read and interpret pie charts ▪ Convert between percentages and fractions and decimals ▪ Percentage of a quantity ▪ Find the whole given the part and the percentage ▪ Solve word problems with proportion
Year 8	**Number** ▪ Primes and indices ▪ Prime factorisation to find LCM, HCF, squares, cubes ▪ Rounding, significant figures and estimation ▪ Add and subtract fractions	**Algebraic expressions** ▪ Negative numbers and inequality statements ▪ Calculate and evaluate expressions with rational numbers ▪ Algebraic manipulation ▪ Linear equations ▪ Expressions and equations from real-world situations	**2D Geometry** ▪ Draw accurate triangles and quadrilaterals (ruler, protractor, compasses) ▪ Find unknown angles (including parallel lines) ▪ Conversion between length units and between area units ▪ Area and perimeter of composite figures ▪ Area of parallelograms and trapeziums	**Proportional reasoning** ▪ Convert between percentages, fractions & decimals ▪ Percentage increase and decrease, finding the whole given the part and the percentage ▪ Ratio (equivalent, of a quantity) and rate ▪ Speed, distance, time	**3D Geometry** ▪ Circumference and area of a circle ▪ Conversion between mass units and between volume units ▪ Visualise and identify 3D shapes and their nets ▪ Surface area and volume of cuboid, prism, cylinder, composite solids	**Statistics** ▪ Collecting and organising data ▪ Construction and interpretation of graphs – pictograms, bar charts, pie charts, histograms, line graphs ▪ Interpret and compare statistical representations

haggerston school

Year 9	• Probability • Indices & Standard form • Formulae • Sequences	• Graphs • Perimeter, Area and Volume.	• Angles, Pythagoras & Triganometry • Percentages	• Ratio & Proportion • Statistics		
	Throughout Year 9 ▪ Approximation and significant figures ▪ Four operations with whole numbers, fractions and decimals ▪ Percentage increase and decrease, finding the whole given the part and the percentage					