

Year 8 Maths Curriculum Map									
HalfTerm	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2			
Big Themes	Algebra, Linear graphs, Sequences, Area	Fractions Fractions	Classifying shapes, Angles in parallel lines, percentages	Percentages, Rounding, Accurate drawings	Area & circumference of a circle, Volume and Surface area	Averages Coloulete the mean			
Knowledge and skills covered	 Collecting like terms Using diagrams and letters to generalise number operations expand a single bracket multiply & divide expressions by unknowns and integers form expressions substitution Solve 2-step equations solve equations involving brackets Calculate midpoint of vertical, horizontal, diagonal lines Find the endpoint given the midpoint and one end point fill in a table of values for y=mx+c Plot a line y=mx+c Plot lines with a fractional gradient continue sequences find missing terms of a sequence describe a sequence using the term to term rule Calculate the nth term 	 Find factors and multiples of a number Find the LCM and HCF of groups of numbers Find prime numbers Find the prime factors of a number Determine HCF and LCM by prime factorisation Use indices to record repeated multiplication Find squares, square roots, cubes and cube roots using prime factorisation Use equivalent fractions Convert between improper fractions and mixed numbers Add and subtract fractions with like denominators Add and subtract fractions with unlike denominators Add and subtract mixed numbers and improper fractions Multiply and divide with fractions and decimals 	 Classify special triangles and quadrilaterals on the basis of their properties: define parallelogram, rhombus and trapezium etc Construct a triangle / quadrilateral from given information Identify the different types of angles formed by parallel lines and a transversal such as corresponding angles, alternate angles and interior angles Use the properties of angles to find unknown angles in addition to parallel lines angles rules Find unknown angles in geometrical figures involving squares, rectangle, parallelogram, rhombus, trapezium and triangle Convert between cm² and m² Finding simple % of amounts (non-calc) 	 Use percentages greater than 100% Express one quantity as a percentage of another Compare two quantities by percentage Increase or decrease a quantity by a given percentage Reverse percentages: find the original quantity given a part of it and its percentage Reverse percentages: find the original quantity when we know its final value after the percentage increase or decrease Solve problems involving percentages and reverse percentages round to any number of dp round to any number of sig fig Estimate calculations by rounding first Understand and use properties of triangles accurately construct 	 Use formulae to calculate the area and circumference of a circle Find the area and perimeter of semi circle, quarter circle etc Solve word problems involving area and perimeter identify, name and describe properties of 2D shapes Recognise and design nets of 3D shapes Build and name 3D shapes Can count edges, faces and vertices Identify the cross section of a prism Units of volume, capacity and mass. Conversion Find the volume of cubes and cuboids Find the volume of prisms and cylinders Find the volume of composite shapes Explore surface area of 	 Calculate the mean, median and mode of simple data sets Find the range and use this to comment on the spread of data Find the mean from a simple bar chart or frequency table Use any average and the range to compare two simple sets of data Appreciate the difference between discrete and continuous data Classify and tabulate data Draw, analyse and interpret graphs Calculating mean, median, mode and range from a discrete frequency table Calculate in modal class interval from grouped data Calculate the median class interval from grouped data Calculate the median class interval from grouped data Calculate the mean 			



sequence		of an amount using	triangles	cylinders and other	1			
• use the nth ten	·m	multipliers	ti langies	prisms				
formula to gen		Increase and decrease		Convert between				
_	erate a							
sequence		by a percentage		measures of area and				
Decide if a nun		Find the original		volume				
be in a sequence		amount given the %						
Understand an	d	change and result						
continue specia	al	(reverse %)						
sequences		• Express one quantity as						
Recall properti	es of a	a percentage of another						
parallelogram		Convert between FDP						
Calculate the a	rea of a							
parallelogram								
Recall properti	es of a							
trapezium								
Calculate the a	rea of a							
trapezium								
Knowledge organisers and more detailed topic resources can be found on all student Google Classrooms								