Year 8 scheme of learning

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Title	**Sequences and equations**	**Indicies**	**Construction**	**Ratio and scale**	**2D shapes**	**The data handling cycle**
Pre Unit A	Sequence rules	BIDMAS	types of angles and their values	fractions and fractions of amount	area/perimeter of rectanges and triangles	pictograms
Content A	Generate Sequence from a rule	Represent repeated multiplication through index laws	measure and drawing angles	Understand ratio and its link to multiplication	Find the area of trapezium and parallelogram	Understand and use sources of primary and secondary dara
	nth term of a sequence - numerically and pictures	Square and cube roots	construct all triangles	Use ratio notation	Find the area of compound shapes	Interpret and construct statistical diagrams - Bar charts, line charts etc
	Solve two step equations	Approximate a square or cube root	construct line and angle bisectors	Redue ratio to its simplest form	Circle terminology	Construct and interpret pie charts
	Form and solve equations	Use three basic laws of indices with numbers	Standard loci	Solve ratio problems	Area and circumference of circles	Compare distributions using charts
	Solve basic fractional equations	Use three basic laws of indices with letters	Loci questions involving above		Parts of circles and compounds involving circles	Identify misleading graphs
Title	**Inequalities**	**Expand and factorise**	**Angles in parallels and**	**Multiplicative change**	**3D Shapes**	**Data**
Pre Unit B	Directed numbers	Index laws	Properties of 2D shapes (angles)	perimter and area	Area of plane 2d shapes	Measures of location and dispersion
Content B	inequalities on a numberline	Expand a single bracket	Review Year 7 angle rules	Use scale factors linking to ratio	Find the surface area of cubes, cuboids and triangular prisms	Find mean, median, mode range
	multiple inequalities on a numberline	Factorise a single bracket	Revisit geometric notation	Convert between currencies	Find the volume of cubes, cuboids and triangular prisms	Find missing data given the mean
	stating integers for an inequality	Form and solve equations with brackets	Understand and use angles in parallel lines	Draw and interpret scale maps and diagrams	Find the surface area of a cylinder	Recalculate a mean given new information
	Writing inequalities from a numberline or given information	solve inequalities with brackets	Find and use the sum of interior angles on a polygon	Drawing and measuring bearings	Find the volume of a cylinder	Work out mode and modal class
	Solving basic one step inequalities	Distinguish between expressions, equations, formulae and identitites	Find and use the external angle of a polygon	Calculate a bearing and a return bearing		Choose appropriate average
			problem solve with angles in polygons	Problems solve with above		Find the mean of grouped data