Year 8 Maths

What will be studied?		
Topic(s)		
Autumn 1	**Sequences:** Number grid sequences, linear sequences, position-to-term rules, **Forming and solving equations:** Expressions, equations, identities, bar modelling, equating linear expressions, geometric problems **Forming and solving inequalities:** Sets of numbers, inequalities, substitution, number lines, solving inequalities, forming inequalities, bar modelling	End of unit assessment
Autumn 2	**Linear graphs:** Coordinate grids, lattice points, linear graphs, gradient, equation of a line, parallel and perpendicular lines, **Accuracy and estimation:** Rounding, estimating, significant figures	End of unit assessment
Spring 1	**Ratio review:** Part-whole model, equivalence, sharing in a ratio, equal proportion, **Real-Life graphs and rate of change:** Linear relationships, piecewise graphs, distance-time graphs, **Direct and inverse proportion:** Multiplicative relationships, conversions, constant of proportionality, unitary method, inverse proportion	Mid-year exams End of unit assessment
Spring 2	**Univariate data:** Types of data, data collection, representing data, working with the mean, frequency tables, mode, median, range, bar charts **Bivariate data:** Representing data, correlation, lines of best fit, scatter	End of unit assessment

	graphs, correlation, causation	
Summer 1	**Angles in polygons:** Interior and exterior angles, angle sum in polygons, finding missing angles **Bearings:** Cartesian place, polar grids, calculating bearings, bearing intersections, loci **Circles:** Anatomy of circles, constructions, circumference, perimeter of compound shapes, area of circles and sectors, area of compound shapes	End of unit assessments
Summer 2	**Volume and surface area of prisms:** Faces, edges, vertices, nets, surface area of cubes and cuboids, prisms, nets of prisms, surface area of prisms, cylinders, volume by counting, volume of prisms **Revision**	End of year assessment

End of Year Examination
How will I be assessed at the end of the year?
Students are given one hour of calculator and one hour of non-calculator assessment comprising of all the topics covered in year 8. These assessments cover the skills that students have learnt, students should apply their knowledge and solve problems in context.

How can I help my child?
Guidance and advice
Students will be given overviews at the beginning of every term outlining the topics which will be covered. Two pieces of home learning tasks will be set by the teacher. This could be a range of activities from online or worksheets. • **https://www.mymaths.co.uk/ - school subscription** • **https://hegartymaths.com/login/learner** • **https://corbettmaths.com/5-a-day** • **http://studymaths.co.uk**