Year 9 Maths

What will be studied?			
School Term	**Delta groups**	**Theta Groups**	**Assessments**
Autumn 1	**Powers and Roots:** Indices, reciprocals, standard form, surds **Quadratics:** Sequences, expanding, factorising, solving	**Indices and Standard Form:** Mental maths, order of operation, indices, standard form **Expressions and formulae** Simplify algebra, substitution, solve, rearrange formulae, factorise, expand	**End of unit assessments**
Autumn 2	**Inequalities:** Equations, inequalities, indices, algebraic fractions, rearranging formulae **Collecting and Analysing Data:** Presenting and comparing data, averages, box plots, cumulative frequency, histograms	**Sequences, Inequalities, Equations and Proportion:** Number and pattern sequences, nth term, types of sequences, solve equations and inequalities, solve simultaneous equations **Dealing with data:** Displaying and interpreting data, correlation	**End of term assessment**
Spring 1	**Multiplicative Reasoning:** Direct and inverse proportion, arc and sectors of circles **Non-linear Graphs:** Graphs of quadratic, cubic, reciprocal functions	**Probability:** Outcomes, experimental, displaying data and calculating probabilities **Graphs:** Plotting graphs, parallel lines,	**End of unit assessment**

		solving simultaneous equations graphically	
Spring 2	**Accuracy and measures:** Rates of change, compound measures, bounds	**Multiplicative Reasoning:** Enlarging shapes, reverse percentages, compound measures	**End of term assessment**
Summer 1	**Graphical Solutions:** Simultaneous equations, straight line graphs, graphing inequalities **Trigonometry:** Trigonometric ratios, graphs of trigonometric functions	**Circles, Pythagoras and Prisms:** Circumference and area, Pythagoras' Theorem, volume and surface area, bounds **Constructions and Loci:** Scaling, maps, bisectors, nets, triangles, loci	**End of unit assessments**
Summer 2	**Mathematical Reasoning:** Explain, justify, show, prove	**Comparing Shapes:** Similarity, congruence	**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**   **https://www.pearsonactivelearn.com/**