KS4
Year 10

Autumn Term	Spring Term	Summer Term
Key knowledge: **Foundation:** Multiplicative reasoning, Review FDRP using exam papers Properties of shapes, parallel lines and angle facts Interior and exterior angles of polygons Review Algebra form Y9 using exam papers *Half term* Probability Perimeter and area 3D forms and volume **Higher:** Multiplicative reasoning, Review FDRP using exam papers Linear graphs and coordinate geometry Transformations Constructions, loci and bearings Review Algebra form Y9 using exam papers *Half term* Indices, roots, reciprocals and hierarchy of operations Collecting data Cumulative frequency, box plots and histograms	**Key knowledge:** **Foundation:** Right-angled triangles: Pythagoras and trigonometry Circles, cylinders, cones and spheres *Half term* Multiplicative reasoning-compound measures Real-life graphs Straight-line graphs **Higher:** Quadratic, cubic and other graphs Area under a graph and gradient of a line segment. Direct and Inverse Proportion and the constant of proportionality *Half term* Similarity and congruence in 2D and 3D Solving quadratic and simultaneous equations Linear Inequalities	**Key knowledge:** **Foundation:** Transformations I: translations, rotations and reflections Transformations II: enlargements and combinations *Half term* Plans and elevations Constructions, loci and bearings Fractions and reciprocals Indices and standard form **Higher:** Solve an equation using the iterative process Further trigonometry. Triangles and sine and cosine rules Circle theorems Circle geometry *Half term* Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof Composite and inverse functions.

Pupils will be able to:	Key Attributes for Success:	Pupils will be able to:	Key Attributes for Success:	Pupils will be able to:	Key Attributes for Success:
Answer GCSE questions on the aspects of 'Number' listed above	Perseverance. Marking answers. Correcting errors. Marking corrections. Asking your teacher for help. Seeking help outside of lessons	Answer GCSE questions on the aspects of 'Number' listed above	Perseverance. Marking answers. Correcting errors. Marking corrections. Asking your teacher for help. Seeking help outside of lessons	Answer GCSE questions on the aspects of 'Number' listed above	Perseverance. Marking answers. Correcting errors. Marking corrections. Asking your teacher for help. Seeking help outside of lessons

Assessment: There will be an assessment around half term and just before or just after Christmas on the above topics	**Assessment:** There will be an assessment around half term and before or just after Easter on the above topics	**Assessment:** There will be an assessment around half term and at the end of June on the above topics
Enrichment Opportunities: Mathswatch Maths Inspiration Trip	**Enrichment Opportunities:** Mathswatch Maths Inspiration Trip	**Enrichment Opportunities:** Mathswatch Maths Inspiration Trip

Year 10 Practice Assessment:
Revision practice will be provided on Mathswatch