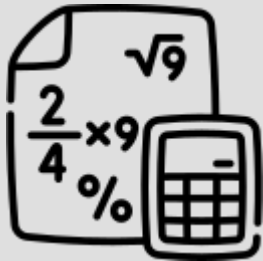


Year 9 Mathematics



Summer Term 2

Algebraic Representation, LCM, HCF, Prime Numbers

Summer Term 1

End of Year Assessment Preparation, Ratio and Proportion

Spring Term 2

Pythagoras' Theorem, Trigonometry, Probability, Rates

Spring Term 1

Deduction, Rotation, Translation, Enlargement, Similarity

Autumn Term 2

Constructions and Congruency, Using Percentages, Maths and Money

Autumn Term 1

Forming and Solving Equations, Testing Conjecture, 3D Shapes, Number



Knowledge	Attributes / Character	Skills	Experiences
<ul style="list-style-type: none"> • Straight Line graphs • Forming and Solving Equations • Testing Conjecture • 3D Shapes • Construction and Congruency • Number • Using Percentages • Maths and Money • Deduction • Rotation • Translation • Pythagoras' Theorem • Enlargement • Similarity • Probability • Rates • Ratio and Proportions 	<ul style="list-style-type: none"> • Confidence - Students will be exposed to a variety of key knowledge while building on key concepts learnt in Year 7 and 8 to build a solid foundation for fluency, problem solving, reasoning and confidence. • Organisation - Homework is set on a weekly basis to extend learning from the classroom. Google Classroom is an important platform for all students where further extended learning, Revision and assessment information and important notices are uploaded. Students are expected to check both platforms regularly and complete all tasks in a timely manner. • Resilience - Students build their resilience through problem solving and reasoning. • Empathy - Students are encouraged to work with peers and support each other when they are stuck. 	<ul style="list-style-type: none"> • consolidate their numerical and mathematical capability from Year 7 and 8 and extend their understanding of the number system and place value to include decimals, fractions, powers and roots • use algebra to generalise the structure of arithmetic, including to formulate mathematical relationships • Establish their mathematical knowledge, in part through solving problems and evaluating the outcomes, including multi-step problems • Establish their use of formal mathematical knowledge to interpret and solve problems, including in financial mathematics • reason deductively in geometry, number and algebra, including using geometrical constructions • select and use appropriate calculation strategies to solve increasingly complex problems 	<p>UKMT Junior Challenge</p> <p>Maths Club</p> <p>Games Club</p> <p>Trust Challenge</p> <p>Mathswatch Rewards Trip</p>