

## Year 9

Autumn Term		Spring Term		Summer Term	
<b>Key knowledge:</b> Year 9 begin their GCSE course.  <b>Foundation:</b> Integers and place value Decimals: ordering & arithmetic Indices, powers and roots Factors, multiples and primes <b>Half term</b> Fractions, decimals and percentages Percentages Percentages Multiplicative reasoning-percentages and magic multipliers Ratio Proportion  <b>Higher:</b> Calculations, checking and rounding Factors, multiple and primes Fractions & Percentages Ratio and proportion Multiplicative reasoning - magic multipliers <b>Half term</b> Algebra: manipulation & factorising Setting up, rearranging and solving equations Sequences		<b>Key knowledge:</b>  <b>Foundation:</b> Algebra: the basics Expanding and factorising single brackets Expressions and substitution into formulae <b>Half term</b> Equations Inequalities Sequences  <b>Higher:</b> Averages and range Representing and interpreting data Scatter graphs <b>Half term</b> Polygons, angles and parallel lines Probability and Venn diagrams		<b>Key knowledge:</b>  <b>Foundation:</b> Statistics and sampling The averages Tables Charts and graphs <b>Half term</b> Pie charts Scatter graphs  <b>Higher:</b> Perimeter, area and circles Pythagoras’ Theorem and trigonometry 3D forms and volume, cylinders, cones and spheres <b>Half term</b> Multiplicative reasoning-compound measures Accuracy and bounds Graphs: the basics and real-life graphs	
<b>Pupils will be able to:</b> Answer GCSE questions on the aspects of ‘Number’ listed above	<b>Key Attributes for Success:</b> Perseverance. Marking answers. Correcting errors. Marking corrections. Asking your teacher for help. Seeking help outside of lessons	<b>Pupils will be able to:</b> Answer GCSE questions on the aspects of ‘Number’ listed above	<b>Key Attributes for Success:</b> Perseverance. Marking answers. Correcting errors. Marking corrections. Asking your teacher for help. Seeking help outside of lessons	<b>Pupils will be able to:</b> Answer GCSE questions on the aspects of ‘Number’ listed above	<b>Key Attributes for Success:</b> Perseverance. Marking answers. Correcting errors. Marking corrections. Asking your teacher for help. Seeking help outside of lessons
<b>Assessment:</b> There will be an assessment around half term and just before or just after Christmas on the above topics		<b>Assessment:</b> There will be an assessment around half term and before or just after Easter on the above topics		<b>Assessment:</b> There will be an assessment around half term and at the end of June on the above topics	
<b>Enrichment Opportunities:</b> Math’s Club (Tue after school) Times Tables Rock stars (TTRS)		<b>Enrichment Opportunities:</b> Math’s Club (Tue after school) Times Tables Rock stars (TTRS)		<b>Enrichment Opportunities:</b> Math’s Club (Tue after school) Times Tables Rock stars (TTRS)	
<b>Year 9 Practice Assessment:</b> Revision practice will be provided on Mathswatch					