Year 7

Autumn Term		Spring Term		Summer Term	
Key knowledge: **Core:** Four operations Working with decimals and negatives Order of operations (BIDMAS) Rounding and estimation *Half term* Perimeter and area Factors and multiples Prime numbers Averages and Data **Higher:** Four operations Working with decimals and negatives Order of operations (BIDMAS) Rounding and estimation *Half term* Perimeter and area Factors and multiples Prime numbers Averages and Data		**Key knowledge:** **Core:** Using angle rules for parallel lines and intersecting lines Properties of shapes Adding and subtracting fractions Converting between proper and improper fractions *Half term* Calculating fractions of a quantity Multiplying and dividing fractions and mixed numbers Converting between fractions, decimals and percentages Working with ratio **Higher:** Using angle rules for parallel lines and intersecting lines Know the terms alternate, corresponding and allied for parallel lines Properties of shapes Interior and exterior angles of polygons *Half term* Simplifying fractions Adding and subtracting fractions Converting between proper and improper fractions Calculating fractions of a quantity Multiplying and dividing fractions and mixed numbers Converting between fractions, decimals and percentages Working with ratio		**Key knowledge:** **Core:** Using indices and roots Collecting like terms Expanding and factorising an expression Solving equations Forming and using formulae *Half term* Generating sequences Using term-to-term rules or position-to-term rules Interpreting graphs and diagrams of data Using averages to compare data **Higher:** Using indices and roots Calculating in standard form Collecting like terms Expanding and factorising an expression Solving equations Forming and using formulae *Half term* Generating sequences Using term-to-term rules or position-to-term rules Interpreting graphs and diagrams of data Using averages to compare data	
Pupils will be able to: Answer problem solving questions on all the topics listed above	**Key Attributes for Success:** Learning times tables. Knowing number bonds. Mental arithmetic strategies. Problem solving skills. Reading the question. Asking for help. Setting out work clearly. Showing working out. Self and peer assessment. Correcting work.	**Pupils will be able to:** Answer problem solving questions on all the topics listed above	**Key Attributes for Success:** Learning times tables. Knowing number bonds. Mental arithmetic strategies. Problem solving skills. Reading the question. Asking for help. Setting out work clearly. Showing working out. Self and peer assessment. Correcting work.	**Pupils will be able to:** Answer problem solving questions on all the topics listed above	**Key Attributes for Success:** Learning times tables. Knowing number bonds. Mental arithmetic strategies. Problem solving skills. Reading the question. Asking for help. Setting out work clearly. Showing working out. Self and peer assessment. Correcting work.
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 just 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: Math's Club (Tue after school in S10) Chess club (Tue after school in 2.1) Times Tables Rock stars (TTRS)		**Enrichment Opportunities:** Math's Club (Tue after school in S10) Chess club (Tue after school in 2.1) Times Tables Rock stars (TTRS) Junior Maths Challenge		**Enrichment Opportunities:** Math's Club (Tue after school in S10) Chess club (Tue after school in 2.1) Times Tables Rock stars (TTRS)	