

SOW - Brief Overview

Throughout Year 7 pupils will be taught calculator skills.

Y7 Autumn

A - B1 - Sequences	A - B2 – Algebraic Notation	A - B3 – Equality & Equivalence	A - B4 – Place Value	A - B5 – FDP Equivalence
<ul style="list-style-type: none">- Continue sequences involving pictures / numbers- Know the difference between linear / non-linear including plotting- Use the term to term rule- Special sequences Fibonacci	<ul style="list-style-type: none">- Function machines 1 step and 2 step including algebra- Basic algebraic notation- Substitution positive numbers 1 step and 2 step- Generate sequence from n^{th} term rule	<ul style="list-style-type: none">- Fact families- One step equations- Recognise like and unlike terms- Collecting like terms- Equivalent expressions	<ul style="list-style-type: none">- Place value up to 1 billion- Compare and order integers and decimals- Rounding (inc 1 sf) with integers and decimals- Median- Range- Standard form introduction	<ul style="list-style-type: none">- Position fractions, decimals and percentages on number line- Convert FDP with and without a calculator- Equivalent fractions- Interpret pie charts

Y7 Spring

Sp - B1 – Addition & Subtraction	Sp - B2 – Addition & subtraction of fractions	Sp – B3 – Multiplication & Division	Sp – B4 – Directed number	Sp – B5 – Fractions and Percentages of amounts
<ul style="list-style-type: none">- Formal and mental methods for addition and subtraction- Perimeter- Money problems- Frequency trees- Bar charts and line charts- Add and subtract directed number- Collecting like terms with positive and negative terms- Add and subtract standard form (ext only)	<ul style="list-style-type: none">- Equivalent fractions- Convert between mixed number and improper fractions- Add & subtract proper fractions and mixed numbers- Fractions in algebraic contexts	<ul style="list-style-type: none">- Order of operations- Formal methods for multiplication and division integers and decimals- Multiply and divide by powers of 10- Converting metric- Factors and multiples- Mean- Area- Algebraic multiply and divide	<ul style="list-style-type: none">- 4 operations with negatives- Order of operations including negatives- Two step equations- Substitution including negatives- Using a calculator with negatives- Powers and roots	<ul style="list-style-type: none">- Find a fraction of amount or the whole when know fraction- Percentages without calculator- Percentages with a calculator (multipliers)

Y7 Summer

Su - B1 – Constructing & Measuring	Su - B2 – Develop geometric reasoning	Su - B3 – Developing number sense	Su - B4 – Sets & Probability	Su - B5 – Prime numbers & Proof
<ul style="list-style-type: none"> - Labelling conventions - Types of triangles / quadrilaterals - Classify, draw and measure angles - Construct triangles (inc SSS) and other shapes - Draw and interpret pie charts 	<ul style="list-style-type: none"> - Angles at a point, on straight line and vertically opposite - Angles in a triangle or quadrilateral - Angles in parallel lines - Multi-step problems 	<ul style="list-style-type: none"> - Mental strategies for all 4 operations - Estimation - Divisibility rules - Use factors to simplify calculations - Numeric and algebraic related facts 	<ul style="list-style-type: none"> - Sets & Venn diagrams inc intersection, union and complement - Probability language - Single event probability - Probabilities sum to 1 	<ul style="list-style-type: none"> - Factors and multiples - Types of number eg square, triangular, prime - Product of primes - HCF and LCM using listing and product of primes