



	Term 1 (Autumn)		Term 2 (Spring)		Term 3 (Summer)	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Concepts – All Sets	 Sequences Generating sequences Recognising special sequences Algebraic Notation Function machines Substitution Rearrange and simplify Equality & Equivalence Inverse operations Using letters to represent unknowns Using function machines Solving linear equations 	 Place value Compare integers and decimals Inequalities Number lines Range and median of number lines Round to powers of ten, decimal places and significant figures FDP Conversions Meaning of percentages Represent fractions as diagrams, number lines 	 Addition & Subtraction Mental strategies Written methods Solve perimeter problems Solve problems with tables and timetables Solve problems with frequency trees Apply addition and subtraction to bar charts, line graphs and two-way tables. Multiplying & dividing Find factors and multiples HCF/LCM By powers of 10 Convert metric units Formal methods Order of operations Problems involving area of rectangles, parallelograms, and triangles Problems involving the mean 	 Fractions & Percentages of Amounts Fractions of amounts Percentages of amounts with and without a calculator Directed Numbers Representations Order and use inequality symbols Add, subtract, multiply and divide Calculator use Algebraic expressions Solve two step equations Correct order of operations Adding & Subtracting Fractions Mixed numbers and improper fractions Add and subtract fractions, including mixed numbers Add and subtract fractions and decimals 	 Constructing & Measuring Labelling notation Line segments Use a compass Angles – classify, measure, draw Parallel and perpendicular Types of triangles Types of quadrilaterals Name polygons Construct triangles ASA, SAS and SSS Construct and interpret pie charts Geometric Reasoning Angles around a point, on a straight line, vertically opposite, in a triangle, quadrilateral Solve problems 	 Sets & Probability Identify and represent sets Venn diagrams Language of probability Sample spaces Probability scale Sum of possible outcomes Primes & Proofs Multiples Factors of numbers and expressions Prime numbers Square and triangular numbers HCF and LCM





Extension Objectives – All Sets	• Finding the nth term of a linear sequence	 Write 10, 100, 1000 etc as powers of 10 Investigate negative powers of 10 Write positive integers and decimals in standard form Fractions as division FDP conversions with fractions greater than 1 	 Add and subtract in standard form Multiply by 0.1, 0.01, etc Problems involving area of trapezia Apply multiplication and division skills to algebraic contexts 	 Problems with fractions greater than 1 and percentages greater than 100% Square and square root of positive numbers Higher powers and roots of positive numbers Fractions in algebraic context Add and subtract algebraic fractions 	 Construct more complex polygons Angle sum in any polygon Angles in parallel lines Simple proofs 	 Complement of a set HCF and LCM using a Venn diagram Tests and conjectures Counter example
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All pupils will sit several knowledge tests and an assessment in Year 7.

	Knowledge Tests	Asses	Revision Resources Kennet Resources		
	Autumn/Spring Terms	Summ			
Style of Assessment	Each knowledge test consists of 10 multiple-choice questions	Paper 1: Non-CalculatorPaper 2: Calculator		 Year 7 Knowledge Organisers Learning Habits External Resources 	
Topics Assessed	 Core knowledge taught until that point in the academic year 	The exam will assess any this point in the year or o content. The units cover Sequences Algebraic Notation Equality & Equivaler Place Value Fractions, Decimals Addition & Subtract Multiplying & Dividir Fractions & Percent Directed Numbers Adding & Subtractir Constructing & Mec A revision list and revision provided prior to the ass	any previously taught ed are: Ance & Percentages ion ages of Amounts ages of Amounts as Fractions as uring n materials will be	 www.mymaths.co.uk www.bbc.com/bitesize You can also find revision material on Frog 	