

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Algebraic Thinking					Place Value and Proportion						
Autumn	Sequences		and alge	rstand use braic ation	Equality and equivalence		Place value and ordering integers and decimals		Fraction, decimal and percentage equivalence			
	Applications of Number				Directed Number		Fractional Thinking					
Spring	problems with n		noltiplication هساtiplication هسوساد الم		Four operations with directed number		Addition and subtraction of fractions					
	Lines and Angles				Reasoning with Number							
Summer	Constructing, measuring and using geometric notation				eveloping geometric reasoning			oping nber nse		and ability	numbe	me ers and oof

All material is this unit is revisited and extended in forthcoming units



Autumn Half Term 1 – Algebraic Thinking						
Block 1 – Weeks 1 and 2	Block 2 – Weeks 3 and 4		Block 3– Weeks 5 and 6			
Compare numerical and graphical forms letters Use and interpret algebreath of the compare numerical and graphical forms Understand and use investigations.		hines and series of two numbers, bar models and aic notation erse operations o expressions, including to	 Equality and equivalence Understand equality Use fact families Form and solve one-step equations Understand equivalence of algebraic expressions Collect like terms 			
Notes/Links/Interleaving Calculators should be used throughout this unit, build of calculators and informal estimation	ling in teaching efficient use	Additional Higher Content This introductory unit is designed to be accessed by all students – exemplification documents will illustrate tasks suitable for students of different levels of prior				

attainment including challenge for higher attainers.

Autumn Half Term 2 – Place Value and Proportion					
Block 4 – Weeks 7 to 9	Block 5 – Weeks 10 to 12				
 Place value and ordering Recognise and use integer place value up to one billion Recognise and use decimal place value to at least hundredths Work out intervals and use number lines Compare and order numbers Use ordered lists to find the range and the median of a set of numbers Round numbers to positive powers of ten Round numbers to one significant figure 	 Fraction, decimal and percentage equivalence Represent tenths and hundredths on diagrams and number lines Interchange between fractions, decimals and percentages for multiples of one tenths and one quarter Interpret pie charts Equivalent fractions Convert between other fractions, decimals and percentages 				
Notes/Links/Interleaving Solve equations with fractions, including fractional coefficients Consider sequences with fractions	Additional Higher Content Explore and use standard index form Explore fractions above one Convert multiples of one eighth to decimals and percentages				



Spring Half Term 1 – Application of Number						
Block 1 – Weeks 1 and 2	Block 2 – Weeks 3 to 5		Block 3 – Week 6			
 with integers and decimals, including choosing the most appropriate method Solve problems in the context of perimeter, money and frequency trees and tables Use mental and Find the HCF and Evaluate areas of Find the mean of 		d percentages of amounts	Fractions and percentages of amounts • Work out simple fractions and percentages of amounts, with and without a calculator			
Notes/Links/Interleaving Perimeter problems to revisit equations and simplifyi Tables to include distance charts and simple timetab Revisit rounding Choosing when to use mental, written or calculator m Order of operations to be revisited with negative num	les nethods	Additional Higher Content Explore addition of numbers given in standard form Evaluate the area of a trapezium Find the HCF and LCM of algebraic expressions Find areas involving algebraic expressions Use fractions greater than 1				

Spring Half Term 2 – Directed Number and Fractional Thinking						
Block 4 - Weeks 7 to 9	Block 5 – Weeks 10 to 12					
 Directed Number Order directed numbers, both in contextualised and abstract situations Revisit four operations to include directed number Use a calculator with directed number Solve two-step equations (with and without a calculator) Use the order of operations 	 Adding and subtracting fractions Represent tenths and hundredths on diagrams and number lines Convert mixed numbers and improper fractions Add and subtracting fractions with the same denominator one denominator a multiple of the other different denominators Add and subtract fractions and decimals e.g. ³/₄ + 0.2 					
Notes/Links/Interleaving Include inequality number lines Revisit sequences, substitution and equations	Additional Higher Content Negative square roots Higher powers					



Summer Half Term 1 – Lines and angles					
Block 1 – Weeks 1 to 3	Block 2 – Weeks 4 to 6				
 Construction and measuring Understand and use letting and labelling notation for lines and angles Draw and measure lines and angles accurately Classify angles Identify and draw parallel and perpendicular lines Recognise types of triangle, quadrilateral and other polygons Construct triangles given SSS, SAS, ASA Draw and interpret pie charts 	 Geometric Reasoning Calculate and use angles at a point, angles on a straight line and vertically opposite angles Calculate missing angles in triangles and quadrilaterals 				
Notes/Links/Interleaving Revisit simplifying and perimeter in e.g. polygons Form and solve equations in geometric settings Revisit mental and formal methods of addition and subtraction, including with decimals	Additional Higher Content Understand and use parallel lines rules Understand and use the sum of angles in any polygon Derive simple proofs using angles rules				

Summer Half Term 2 – Reasoning with number					
Block 3 – Weeks 7 and 8	Block 4 – Weeks 9 and 10		Block 5 – Weeks 11 and 12		
 Developing Number Sense Mental arithmetic strategies Use known facts to derive other facts, Evaluate an algebraic expression given a related fact Use estimation 	 Sets and Probability Understand and use set notation Draw and interpret Venn diagrams Understand and use the language of probability Calculate the probability of a single event Use the sum of probabilities of an event is 1 		Prime numbers and proof Recognise prime, square and triangle numbers Express a number as a product of prime factors Powers and roots Make and test conjectures Understand and use counterexamples		
Notes/Links/Interleaving Revisit FDP equivalence, and simple FDP addition and Revisit factors and multiples, both numerically and all		Additional Higher Content Understand and use the complement of a set Use prime factors to find HCFs and LCMs			