Year 6	1	
Autumn Term (7 weeks + 7 weeks = 14 weeks)	Small steps	Key vocab
Number and Place value (2 weeks)	Numbers to 1,000,000	Millions
5N2 Read, write, order and compare numbers to at least	Numbers to 10,000,000	Thousands
10 000 000	Read and write numbers to 10,000,000	Hundreds
	Powers of 10	Tens
IN2 Determine the place value of each digit in numbers		Ones
5N3 Determine the place value of each digit in numbers	Partition numbers to 1,000,000	
ıp to 10 000 000	Number line to 10,000,000	Place holder
	Compare and order any integers	Greater than
5N4 Round any whole number to a required degree of	Round any integer	Less than
occuracy	Negative numbers	Equals to
	Tropacite manuscro	Ascending
INC the mention where in entert and relable		
5N5 Use negative numbers in context and calculate		Descending
ntervals across zero		Positive
		Negative
5N6 Solve number and practical problems that involve		
5N1-6N5 (ongoing through all units)		
(86		
Cour aparations (4 E wooks)		Multi stop
Four operations (4-5 weeks)		Multi-step
6C3 Use estimation to check answers to calculations, in	Add and subtract integers	Addition: sum, totals,
the context of a problem, an appropriate degree of	Common factors	altogether, combine, plus,
accuracy	Common multiples	more
	Rules of divisibility	Subtraction: finding the
6C4 Solve addition and subtraction multi-step problems	Prime numbers to 100	difference, minus, less that
	Square and cube numbers	
n contexts, deciding which operations and methods to		left, take away
use and why	Multiply up to a 4 digit number by a 2 digit number	Crossing the boundary
	Solve problems with multiplication	Exchange
6C6 Perform mental calculations, including with mixed	Short division	Multiplication: product,
operations and large numbers	Division using factors	repeated addition,
sperations and targe name of	Long division	groups/lots of
CO Calva problems involving addition		Division: share, split equall
6C8 Solve problems involving addition,	Long division with remainders	
subtraction, multiplication and division	Solve problems with division	equal groups, dividend,
	Solve multi-step problems	divisor, quotient, division
6C9 Use their knowledge of the order of operations to	Order of operations	bracket
carry out calculations involving the four operations	Mental calculations	Operations
	Reason form known facts	Known facts, factor pairs
	neason form known facts	Common factor, common
		multiples
		Prime number, prime facto
		Composite number
Fractions (4 weeks)		
6F2 Use common factors to simplify fractions; use	Fractions Block A:	Simplify
. , ,		' '
common multiples to express fractions in the same	Equivalent fractions and simplifying	Numerator
denomination	Equivalent fractions on a number line	Denominator
	Compare and order (denominator)	LCM (lowest common
5F3 Compare and order fractions, including fractions >1	Compare and order (numerator)	multiple)
	Add and subtract simple fractions	Factors to simplify/highest
5F4 Add and subtract fractions with different	Add and subtract any two fractions	common factor
denominators and mixed numbers, using the concept of	Add mixed numbers	Mixed numbers
equivalent fractions	Subtract mixed numbers	Proper fractions
	Multi-step problems	Improper fractions
6F5a Multiply simple pairs of proper fractions, writing the		Equivalent fractions
answer in its simplest form eg $1/4 \times 1/2 = 1/8$	Fractions Block B:	,
answer in its simplest form eg 1/4 x 1/2 = 1/8		
aret out to the state of	Multiply fractions by integers	
6F5b Divide proper fractions by whole numbers eg 1/3 ÷	Multiply fractions by fractions	
2 = 1/6	Divide a fraction by an integer	
	Divide any fraction by an integer	
	Mixed questions with fractions	
	Fraction of an amount	
	Fraction of an amount - find the whole	
Mock SATS week		
	I and the second	i

Percentages (1 week) 6F11 Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	To find a percentage of an amount	Percent 100
Measure – Converting units (1 week) 6M5 Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation of up to three decimal places 6M6 Convert between miles and kilometres	Metric measure and converting metric measures Calculate with metric measures Miles and km Imperial measures	Imperial Metric Convert Divide Multiply Miles and km
Spring Term (6 weeks + 7 weeks = 13 weeks)	Small steps	Key vocab
FDP (3 weeks) 6F6 Associate a fraction with division to calculate decimal fraction equivalents (eg: 0.375) for a simple fraction [eg: 3/8) 6F9a Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places 6F9b Multiply one-digit numbers with up to two decimal places by whole numbers 6F9c Use written division methods in cases where the answer has up to 2-decimal places 6F10 Solve problems which require answers to be rounded to specified degrees of accuracy 6F11 Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	Decimals block: Place value within 1 Place value – integers and decimals Round decimals Add and subtract decimals Multiply 10, 100 and 1000 Divide by 10-, 100 and 1000 Multiply decimals by integers Divide decimals by integers Multiply and divide decimals in context FDP block: Decimal and fraction equivalents Fractions as division Fractions to percentages Equivalent fractions, decimals and percentages Order fractions, decimals and percentages	Parts Whole Denominator Numerator Unit fraction Non-unit fraction Simplifying Equivalent Specified degrees of accuracy Mixed numbers Proper fractions Improper fractions Convert Greater than 1 Multiples Whole
Ratio (2 weeks) 6R1 Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts 6R2 Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison 6R3 Solve problems involving similar shapes where the scale factor is known or can be found 6R4 Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	Use ratio language Introduce ratio symbol Ratio and fractions Scale drawing Scale factor Ratio problems Proportion problems Recipes	Ratio Integer Relative sizes Quantities Relationships Unequal sharing Equal sharing Percentages Compare Scale factor
Algebra (2 weeks) 6A1 Express missing number problems algebraically 6A2 Use simple formulae 6A3 Generate and describe linear number sequences	1-step function machines 2-step function machines Form expressions Substitution Formulae Form equations Solve 1-step equations	Algebra Letters Value Algebraic rules Substitute Expressions Formulae N = number Linear number sequences

6A4 Find pairs of numbers that satisfy an equation with Solve 2-step equations Equation two unknowns Find pairs of values/solve problems with two unknowns Variables **6A5** Enumerate possibilities of combinations of two variables Mock SATS week Perimeter, 2D shape Measure - Area, perimeter and volume (2 weeks) Parallel sides **6M7a** Recognise that shapes with the same areas can Shapes – same area have different perimeters and vice versa Area and perimeter Sum of sides/lengths Area of a triangle – counting squares Standard measurement **6M7b** Calculate the area of parallelograms and triangles Area of a right-angled triangle units: centimetres, metres. Area of any triangle Composite, rectilinear **6M7c** Recognise when it is possible to use the formulae Area of a parallelogram shapes Volume – counting cubes for the area of shapes Square centimetres (cm²) Volume of a cuboid Square metres (m²) **6M8a** Calculate, estimate and compare volume of cubes Area of a rectangle = Length and cuboids using standard units, including centimetre x Width cubed (cm3) and cubic metres (m3), and extending to Area of a triangle = Base x other units [eg: mm3 and km3] perpendicular height x ½ Parallelogram **6M8b** Recognise when it is possible to use the formulae Volume for the volume of shapes Cubic centimetres Cubic metres 6M9 Solve problems involving the calculation and Cuboid, cubes conversion of units of measure, using decimal notation up to three decimal places where appropriate Line graph Statistics (2 weeks) Pie chart 6S1 Interpret and construct pie charts and line graphs Line graphs Data set and use these to solve problems Dual bar charts Interpret Read and interpret pie charts Data representation 6S3 Calculate and interpret the mean as an average Pie charts with percentages Construct Draw pie charts Comparison The mean Mean Average Geometry – angles & shape (1 week) 6G2a Compare and classify geometric shapes based on Measure and classify angles Illustrate their properties and sizes Calculate angles Shape properties Vertically opposite angles **Angles** 6G2b Describe simple 3-D shapes Classify Angles in a triangle Angles in quadrilaterals Equivalences 6G3a Draw 2-D shapes using given dimensions and Angles in polygons Regular polygon Circles (circumference, radius, diameter) Isosceles triangles Nets of 3-D shapes Equal angles 6G3b Recognise and build simple 3D shapes, including Equal sides making nets Sum Interior angles **6G4a** Find unknown angles in any triangles, quadrilaterals Opposite angles and regular polygons Degrees Quadrilateral

Unknown angles

Angles at a point

Opposite angles equal Circle

Straight line Vertically opposite

Radius

Diameter Circumference

6G4b Recognise angles where they meet at a point, are

6G5 Illustrate and name parts of circles, including radius,

diameter and circumference and know that the diameter

on a straight line, or are vertically opposite, and find

missing angles

is twice the radius

Summer Term (4 weeks + 7 weeks = 11 weeks)	Small steps	Key vocab
2 weeks of revision prior to SATS weeks		
SATS week (week 3) Monday 12 th – Thursday 15 th May		
Geometry – Position and Direction (2 weeks)	Read and plot coordinates in the first quadrant	Quadrants
6P2 Draw and translate simple shapes on the co-ordinate	Draw shapes on a 2-d grid	Co-ordinates
plane, and reflect them in the axes	Read and plot in all four quadrants	Position
	Translate in all four quadrants	Grid
6P3 Describe positions on the full co-ordinate grid (all	Reflecting shapes in all four quadrants	Plot data
four quadrants)		X axis Y axis
		Translate
		Reflect