

Number Facts Targets to be practised throughout the year:

* Add and subtract numbers mentally with increasingly large numbers, * multiply and divide numbers mentally drawing upon known facts, * Ready to Progress Criteria 6AS/MD-1: Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number), 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding

Autumn 1						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Place Value: Composition of Numbers and Decimals	Place Value: The linear number system	Assessment	Multiplication and Division (mental methods)	Multiplication (formal methods)	Divisi (formal me	on ethods)
 read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Links to Ready to Progress criteria 6NPV-2: Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and nonstandard partitioning 	 round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero Links to Ready to Progress criteria 6NPV-3: Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts 		 identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places (links to Ready to Progress criteria 6NPV-1) identify common factors, common multiples and prime numbers 	 multiply multi- digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication multiply one- digit numbers with up to two decimal places by whole numbers in the context of measures and money 	 divide numbers u two-digit whole r formal written m division, and inte as whole number fractions, or by ra appropriate for t divide numbers u two-digit number written method o where appropria remainders accor context use written divisi cases where the two decimal plac introduce division numbers by one- number in praction 	up to 4 digits by a number using the ethod of long rpret remainders remainders, ounding, as he context up to 4 digits by a r using the formal of short division te, interpreting rding to the on methods in answer has up to es n of decimal digit whole cal contexts



Autumn 2						
Week 1	Week 2 Week 3 Week 4		Week 5	Week 6	Week 7	
Application of Place Value		Fractions		Geometry: Position and Direction	Four Operations (order of operation	
 Practise formal written method of column addition and subtraction Recognise the place value of each digit in numbers up to 10 million Links to Ready to Progress criteria 6NPV-4: Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts. 	 use common m same deno criteria 6F-: compare an > 1 (links to add and sul denominatic concept of Progress cr multiply sin the answer images to s divide prop example, 1, 	on factors to simplify fr ultiples to express frac mination (links to Read 1) nd order fractions, incl Ready to Progress crit otract fractions with di ors and mixed number equivalent fractions (li iteria 6F-3) nple pairs of proper fra- in its simplest form us upport understanding er fractions by whole of /3 \div 2 = 1/6]	ractions; use ctions in the dy to Progress uding fractions teria 6F-2) ifferent rs, using the nks to Ready to actions, writing sing a variety of numbers [for	 describe positions on all four quadrants draw and translate simple shapes on the coordinate plane, and reflect them in the axes draw and label a pair of axes in all four quadrants with equal scaling extend knowledge of one quadrant to all four quadrants, Inc. negative numbers draw and label rectangles, parallelograms and rhombuses, specified by coordinates in four quadrants, predicting missing coordinates using properties of shapes 	 Explore the cusing bracket use their known of operations calculations is operations perform merincluding with and large num solve problem addition, such multiplicatio use estimation the context of appropriate of appropriate of the context of the context of appropriate of the context of	inder of operations is wledge of the order is to carry out nvolving the four ital calculations, h mixed operations mbers ms involving itraction, n and division on to check answers ns and determine, in of a problem, an degree of accuracy.



Spring 1							
Week 1	Week 2	Week 3	Week 4	Week 5		Week 6	Week 7
 Decimals: Division associate a 	Ratio (revisit Multiplication and Division and Fractions) • Links to Ready to Progress criteria		Assessment	Percentages recall and use	Algebra Link to Ready to Progress criter 		a Progress criteria:
fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8] • solve problems which require answers to be rounded to specified degrees of accuracy • practise calculations with simple fractions and decimal fraction equivalents to aid fluency	 6AS/MD-3: So ratio relations solve problem sizes of two question values can be multiplication solve problem where the scabe found solve problem sharing and gr of fractions and 	lve problems involving hips. s involving the relative uantities where missing found by using integer and division facts s involving similar shapes le factor is known or can s involving unequal ouping using knowledge id multiples.		equivalences between simple fractions, decimals and percentages, including in different contexts • solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison		5AS/MD-4: Solve unknowns use simple formu generate and des number sequence express missing n algebraically find pairs of numl an equation with enumerate possit combinations of t use symbols and represent variable unknowns in mat situations such as <i>missing number</i> <i>coordinates ana</i> <i>in mathematics</i> <i>equivalent expre</i> <i>example, a + b =</i> <i>generalisations</i> <i>patterns</i> <i>number puzzle</i> <i>what two num</i> <i>to</i>)	problems with 2 lae cribe linear es umber problems bers that satisfy two unknowns bilities of two variables letters to es and hematical s: rs, lengths, f angles formulae and science essions (for = b + a) of number



		Sprin	g 2			
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
Calculating Fractions	Shape		Data and Statistics	Ratio, Proportion, Fractions and Percentages		
 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form using a variety of images to support understanding divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6] 	 Links to Reay to Propose, and decorregiven properties, inclusion area, and solve relateding draw 2-D shapes using angles recognise, describering including making netre compare and classification their properties and angles in any triangle polygons illustrate and name radius, diameter and that the diameter is recognise angles whon a straight line, or find missing angles. describe the properties and known measuremer be expressed algebre = 180 - (b + c). 	gress criteria 6G-1: Draw, npose shapes according to luding dimensions, angles and ed problems. ng given dimensions and and build simple 3-D shapes, ts / geometric shapes based on sizes and find unknown es, quadrilaterals, and regular parts of circles, including d circumference and know twice the radius ere they meet at a point, are are vertically opposite, and cies of shapes and explain how l lengths can be derived from its. These relationships might aically for example, d = 2 × r; a	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average connect angles, fractions and percentages to the interpretation of pie charts encounter and draw graphs relating two variables, arising from own enquiry and in other subjects. connect conversion from kilometres to miles in measurement to its graphical representation find the mean of a data set 	 recognise procontexts where between quaratio (for example and recipes) link percent calculating at consolidate when comparate and scale dr variety of provide the notation of the solve proble quantities, from the solve proble quantities, from the sing you nee flour', '3/5 context. recall and us between sin and percent different context. 	oportionality in en the relations antities are in the same ample, similar shapes ages or 360° to ngles of pie charts understanding of ratio aring quantities, sizes awings by solving a oblems tion a:b to record ms involving unequal or example, 'for every d three spoonfuls of f the class are boys' e equivalences nple fractions, decimals ages, including in nexts	



		Summer 1		
Week 1	Week 2	Week 3	Week 4	Week 5
Place Value with Measures	Calculating Measures	SATs revision / consolidation	Assessment	Teacher Assessment to inform planning in response to SATs
 solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate 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 to up to three decimal places convert between miles and kilometres add and subtract positive and negative integers for measures such as temperature using a number line 	 recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres and cubic metres, and extending to other units [for example, mm³ and km³] 	Teacher planning in response to cohort need		Teacher planning in response to cohort need



Summer 2: Y6 – Y7 Transition Focus							
Week 1	Week 2	Week 3	Week 4	Week 5 – 7			
Maths in Context:	Maths in Context:	Maths in Context:	Maths in Context:	Ready to Progress:			
Money	Time	Data and Statistics	Measures	Teacher Assessment,			
				Transition to Secondary			
				Planning in response to			
				cohort need			

Topics selected for summer term 3b reflect a practical using and applying approach.

NCETM Checkpoints materials for Y7 are due to be released for 21/22. Suggest looking at these to plan for transition.