MATHEMATICS



### Mathematics

# Long Term Plan

## Year 6

Updated June 2023

To be read in conjunction with the Calculation Policy



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Autumn	NUMBER Place Value		PiXL Assessments	NUMBER Addition, Subtraction Multiplication and Division Including explicit teaching of mental methods			PiXL Assessments	NUMBER Fractions A Maths Week England		NUMBER Fractions B		MEASUREMENT Converting Units	
Spring	Rat	tio	PiXL Assessments	Alge	bra	NUA Dec	ABER imals	PiXL Assessments	NUA Fract Decima Percel	ABER tions, als and ntages	MEASU Area, Pa and V	REMENT erimeter 'olume	
Summer	GEON She	NETRY ape	Statistics	GEOMETRY Position and Direction	SATs	Consolidation of RTP's Themed Projects Times Tables Focus My Money Maths							

#### Syear 6 Medium Term Plan

Weeks 1-2	Week 3	Weeks 4-7	Week 8	Weeks 9-10 Maths Week England	
Place Value		Addition, Subtraction, Multiplication and Division		Fractions A	
<ul> <li>* Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit</li> <li>* Round any whole number to a required degree of accuracy</li> <li>* Use negative numbers in context, and calculate intervals across zero</li> <li>* Solve number and practical problems that involve the above</li> </ul>	PiXL Assessments	<ul> <li>prime numbers</li> <li>* Multiply multi-digit numbers up to four digits by a 2-digit whole number using the formal written method of long multiplication</li> <li>* Divide numbers up to four digits by a 2-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</li> <li>* Divide numbers up to four digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</li> <li>* Perform mental calculations, including with mixed operations and large numbers</li> <li>* Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>* Solve problems involving addition, subtraction, multiplication and division</li> <li>* Use their knowledge of the order of operations to carry out calculations involving the four operations and determine, in the context of a problem, an</li> </ul>		<ul> <li>Maths Week England will be celebrated during this block with a set focus</li> <li>* Use common factors to simplify fractions; use common multiples to express fractions in the same denomination</li> <li>* Compare and order fractions, including fractions &gt; 1</li> <li>* Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li> </ul>	<ul> <li>Mult prop answ</li> <li>Divid whol</li> <li>Add with and the frac</li> </ul>
Step 1       Numbers to 1,000,000         Step 2       Numbers to 10,000,000         Step 3       Read and write numbers to 10,000,000         Step 4       Powers of 10         Step 5       Number line to 10,000,000         Step 6       Compare and order any integers         Step 7       Round any integer         Step 8       Negative numbers		appropriate acgree of accuracy         Step1       Add and subtract integers         Step2       Common factors         Step3       Common multiples         Step3       Common multiples         Step3       Rules of divisibility         Step3       Primes to 100         Step3       Square and cube numbers         Step3       Square and cube numbers         Step3       Solve problems with multiplication         Step3       Short division         Step3       Short division         Step3       Division using factors         Step3       Solve problems with remainders         Step3       Solve problems with division         Step3       Solve multi-step problems         Step33       Order of operations         Step33       Order of operations         Step34       Mental calculations and estimation		Step1       Equivalent fractions and simplifying         Step2       Equivalent fractions on a number line         Step3       Compare and order (denominator)         Step4       Compare and order (numerator)         Step5       Add and subtract simple fractions         Step3       Add and subtract any two fractions         Step3       Subtract mixed numbers         Step3       Multi-step problems	Step 1         Mul           Step 2         Mul           Step 3         Divi           Step 4         Divi           Step 5         Mix           Step 6         From           Step 7         From
	Weeks 1-2         Place Value         * Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit         * Round any whole number to a required degree of accuracy         * Use negative numbers in context, and calculate intervals across zero         * Solve number and practical problems that involve the above         wmbers to 100000         wmbers to 1000000         wmbers to 1000000         wmbers to 1000000         wmbers to 1000000         wmbers to 10000000         wmbers to 1000000         wmbers to 10000000 <t< td=""><td>Weeks 1-2       Week 3         Place Value       * Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit       * Read, write, order and compare numbers in context, and calculate intervals across zero         * Solve number and practical problems that involve the above       * Solve numbers in context, and calculate intervals across zero         * Solve number and practical problems that involve the above       * Solve numbers in context, and calculate intervals across zero         * Solve number and practical problems that involve the above       * Solve numbers in context, and calculate intervals across zero         * Solve number and practical problems that involve the above       * Solve numbers in context, and calculate intervals across zero         * Solve numbers to 100000       * Numbers to 1000000       * Solve numbers in context, and calculate intervals across zero         * Solve numbers to 100000       * Numbers to 1000000       * Solve numbers in context, and calculate intervals across zero         * Solve numbers to 1000000       * Numbers to 1000000       * Solve numbers in context, and male intervals across         * Numbers to 1000000       * Numbers to 1000000       * Solve numbers in context, and male intervals across         * Solve numbers to 1000000       * Numbers in context, and male intervals across       * Solve number         * Numbers to 1000000       * Numbers in context, and male intervals across       * Solve number         * Solve number</td><td>Weeks 1-2         Week 3         Weeks 4-7           Place Value         *Identify common factors, common multiples and prime numbers up to 10,000,000 and determine the value of each digit         *Identify common factors, common multiples and prime numbers is notext, and calculate intervals across zero           * Solve number and practice numbers in to netext, and calculate intervals across zero         *Identify wolf-adjit number using the formal written method of short division where appropriate, interpreting remainders according to the context           * Solve number and practice across zero         *Divide numbers up to four digits by a 2-digit whole number using the formal written method of long division, where appropriate, fractions, or by rounding, as appropriate for the context           * Divide numbers up to four digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number in context, deciding which operations and large numbers           * Solve audition and subtraction multi-step problems in contexts, deciding which operations and division           * Solve audition and subtraction, multi-step problems in contexts, deciding which operations and division           * Solve audition advision           * Solve audition advision           * Solve audition to check answers to calculations and division           * Solve audition advision           * Solve audition advision           * Solve audition advision           * Solve audition advision           * Solve problems involving addition, subtraction, multi-s</td><td>Weeks 1-2         Week 3         Weeks 4-7         Week 8           Place Value         Addition, Subtraction, Multiplication and Division         Image: Compare the value of each digit         * Identify common factors, common multiples and prime numbers up to 10,000,000 and determine the value of each digit         * Identify common factors, common multiples and prime numbers up to four digits by a 2-digit number using the formal written method of long multiplication         * Divide number using the formal written method of long digits by a 2-digit number using the formal written method of long digits by a 2-digit number using the formal written method of long digits by a 2-digit whole numbers up to four digits by a 2-digit whole number using the formal written method of long digits by a 2-digit whole number using the formal written method of long digits by a 2-digit whole number using the formal written method of long digits by a 2-digit whole number using the formal written method of long digits by a 2-digit whole number using the formal written method of long digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number the formal written method of long division, subtraction, multiplication and division         * Divide mumber value of the order of operations to user and why         * Solve addition and subtraction, multiples and performal written method of long division, subtraction, multiple and gradition, subtraction, multiple and division         * Use estimation to check answers to acluditions and division         * Divide mumber value of the order of operations to user and why         * Solve addition and division         * Use estimation to check answers to acluditions and determine, in the context of a problem, an appropriate formal written method fore operations<!--</td--><td>Weeks 1-2     Week 3     Weeks 4-7     Week 8       Place Value     Addition, Subtraction, Multiplication and Division     Mathe Waek England       * Read, write, order and compar- rumbers up to 10.000,000 and determine the value of ach digit : Solve numbers up to 10.000,000 and determine the value of ach digit : Solve numbers up to 10.000,000 and determine the value of ach 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Weeks 11-12	Week 13				
Fractions B	Converting Units				
ply simple pairs of er fractions, writing the er in its simplest form e proper fractions by e numbers and subtract fractions different denominators nixed numbers, using oncept of equivalent ions	<ul> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate</li> <li>Convert between miles and kilometres</li> </ul>				
	Ensure time conversions are included				
	<ul> <li>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 3 decimal places</li> </ul>				
oly fractions by integers	Boy 1         Metric measures           Boy 2         Convert metric measures           Boy 3         Colculate with metric measures				
e an action by an integer e any fraction by an integer a questions with fractions on of an amount	Bigs 0         Miles and kilometres           Bigs 1         Imperial measures				
on of an amount - find the whole					

	★ <u>6NPV-1</u> Understand the relationship between powers of 10	<ul> <li><u>6AS/MD-2</u> Use a given additive or multiplicative or complete a related</li> </ul>	ve <b><u>6F-1</u></b> Recognise when fractions
	from 1 hundredth to 10 million and	calculation using arithmetic properties inverse	common factors to simplify
	use this to make a given number 10	relationships and place-value understanding	fractions
	100 1 000 1 tenth 1 hundredth or 1	• Step 8-Solve problems with multiplication	• Step 1-Faujvalent fractions
	thousandth times the size (multiply	• Step 10-Division using factors	and simplifying
	and divide by 10, 100 and 1,000)	• Step 13-Solve problems with division	• Step 2-Equivalent fractions
	• Step 4-Powers of 10	•Step 14-Solve multi-step problems	on a number line
	* 6NPV-2 Recognise the place value	• Step 17-Reason from known facts	$\star$ 6F-2 Express fractions in a
	of each digit in numbers up to 10		common denomination and use
	million including decimal fractions		this to compare fractions that
	and compose and decompose		are similar in value
	numbers up to 10 million using		• Step 3-Compare and order
	standard and non-standard		(denominator)
	partitioning.		★ 6F-3 Compare fractions with
	• Step 1-Numbers to 1,000,000		different denominators,
	• Step 2-Numbers to 10,000,000		including fractions greater than
	<ul> <li>Step 3-Read and write numbers</li> </ul>		1, using reasoning, and choose
RTP's	to 10,000,000		between reasoning and common
	★ 6NPV-3 Reason about the location		denomination as a comparison
	of any number up to 10 million,		strategy.
	including decimal fractions, in the		<ul> <li>Step 3-Compare and order</li> </ul>
	linear number system, and round		(denominator)
	numbers, as appropriate, including in		<ul> <li>Step 4-Compare and order</li> </ul>
	contexts.		(numerator)
	<ul> <li>Step 6-Compare and order any</li> </ul>		
	integers		
	• Step 7-Round any integers		
	* 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.		
	• Step 5-Number line to		
	10,000,000		

<ul> <li><u>6NPV-4</u> 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</li> <li>Step 2-Convert metric measures</li> </ul>



Spring Term	Weeks 1-2	Week 3	Weeks 4-5	Weeks 6-7	Week 8	Weeks 9-10
Domain	Ratio		Algebra	Decimals		Fractions, Decimals and Percent
NC Objective	<ul> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</li> <li>Solve problems involving similar shapes where the scale factor is known or can be found</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>	PiXL Assessments	<ul> <li>Use simple formulae</li> <li>Generate and describe linear number sequences</li> <li>Express missing number problems algebraically</li> <li>Find pairs of numbers that satisfy an equation with two unknowns</li> <li>Enumerate possibilities of combinations of two variables.</li> </ul>	<ul> <li>Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places</li> <li>Solve problems which require answers to be rounded to specified degrees of accuracy</li> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>Multiply 1-digit numbers with up to 2 decimal places by whole numbers</li> <li>Use written division methods in cases where the answer has up to 2 decimal places</li> <li>Associate a fraction with division and calculate decimal fraction [for example, 0.375] for a simple fraction [for example, <sup>3</sup>/<sub>8</sub>]</li> </ul>	PiXL Assessments	<ul> <li>Use common factors to simplify fract use common multiples to express frac in the same denomination</li> <li>Associate a fraction with division and calculate decimal fraction equivalents simple fraction</li> <li>Recall and use equivalences between s fractions, decimals and percentages, including in different contexts</li> <li>Compare and order fractions, includin fractions &gt;1</li> <li>Solve problems involving the calculati percentages and the use of percentage for comparison</li> </ul>
	Step 1 Add or multiply?		Step 1 1-step function machines	Step 1 Place value within 1		Step 1 Decimal and fraction equivalents
	Step 2 Use ratio language		Step 2 2-step function machines	Step 2 Place value - integers and decimals		
	Step 3 Introduction to the ratio symbol		Substitution	Step 3 Round decimals		Step 2 Fractions as division
	Step 4 Ratio and fractions		Step 5 Formulae	Step 4         Add and subtract decimals           Step 5         Multiplu bu 10:100 and 1:000		Step 3 Understand percentages
Smallan	Scale drawing		Step 8 Form equations	Step 8         Divide by 10, 100 and 1,000		Step 4 Fractions to percentages
Steps	Step 6 Use scale factors		Step 7 Solve 1-step equations	Step 7 Multiply decimols by integers		Step 5 Equivalent fractions, decimals and percentages
(WRM)	Step 7 Similar shapes		Step 8         Solve 2-step equations           Step 9         Find pairs of values	Step 8 Divide decimals by integers		
(11.541)	Step 9 Proportion problems		Solve problems with two unknowns	Step 9 Multiply and divide decimals in context		Step6 Urder tractions, decimals and percentages
	Step 10 Recipes					Step 7 Percentage of an amount – one step
						Step 8 Percentage of an amount – multi-step
						Step 9 Percentages - missing values

	Weeks 11-12						
ages	Area, Perimeter and Volume						
ions; tions for a simple on of ges	<ul> <li>* 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</li> <li>* Calculate the area of parallelograms and triangles</li> <li>* Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3].</li> </ul>						
	Step 1 Shapes - same area						
	Step 2 Area and perimeter						
	Step 3 Area of a triangle - counting squares						
	Step 4 Area of a right-angled triangle						
	Step 5 Area of any triangle						
	Step 6 Area of a parallelogram						
	Step 7 Volume – counting cubes						
	Step 8 Volume of a cuboid						

RTP's	<ul> <li>* 6AS/MD-3 Solve problems involving ratio relationships.</li> <li>Step 5-Scale drawing</li> <li>Step 6-Use scale factors</li> <li>Step 7-Similar shapes</li> <li>Step 8-Ratio problems</li> <li>Step 9-Proportion problems</li> <li>Step 10-Recipes</li> <li>* 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).</li> <li>Step 1-Add or multiply?</li> <li>Step 5-Scale drawing</li> <li>Step 6-Use scale factors</li> <li>Step 7-Similar shapes</li> <li>Step 8-Ratio problems</li> <li>Step 9-Proportion problems</li> </ul>	<ul> <li>Solve problems with 2 unknowns.</li> <li>Step 9-Find pairs of values</li> <li>Step 10-Solve problems with two unknowns</li> </ul>	<ul> <li><b>6NPV-4</b> 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.</li> <li>Step 5-Multiply by 10, 100 and 1,000</li> <li>Step 6-Divide by 10, 100 and 1,000</li> </ul>	



#### 📀 Year 6 Medium Term Plan

Summer Term	Weeks 1-2	Weeks 1-2 Week 3 Week 4		Week 5	My a
Domain	Shape	Statistics	Position and Direction		Consolidation of R
NC Objective	<ul> <li>Draw 2-D shapes using given dimensions and angles</li> <li>Recognise, describe and build simple 3-D shapes, including making nets</li> <li>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</li> <li>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>	<ul> <li>Interpret and construct pie charts and line graphs and use these to solve problems</li> <li>Calculate and interpret the mean as an average</li> </ul>	<ul> <li>Describe positions on the full coordinate grid (all four quadrants)</li> <li>Draw and translate simple shapes on the coordinate plane and reflect them in the axes.</li> </ul>		This time is also used to a * RTP's that need revis * Themed Projects * Times Tables
Smaller Steps (WRM)	Step 1       Measure and classify angles         Step 2       Calculate angles         Step 3       Vertically opposite angles         Step 4       Angles in a triangle         Step 5       Angles in a triangle - special cases         Step 6       Angles in a triangle - missing angles         Step 7       Angles in a quadrilateral         Step 8       Angles in polygons         Step 9       Circles         Step 10       Drow shapes accurately         Step 11       Nets of 3-D shapes	Step 1       Line graphs         Step 2       Dual bor charts         Step 3       Read and interpret pie charts         Step 4       Pie charts with percentages         Step 5       Draw pie charts         Step 6       The mean	Solve problems with coordinates         Solve problems with coordinates         Soce3       Translations         Step5       Reflections	SATs	
RTP's	<ul> <li>66-1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.</li> <li>Step 4-Angles in a triangle</li> <li>Step 5-Angles in a triangle - special cases</li> <li>Step 6-Angles in a triangle - missing angles</li> <li>Step 7-Angles in a quadrilateral</li> <li>Step 8-Angles in polygons</li> <li>Step 10-Draw shapes accurately</li> </ul>				



#### consolidate: siting