## St. Paul's C of E Primary School

DOMAINS	TERM 1	TERM 2	TERM 3
NUMBER	<ul> <li>Read &amp; write numbers up to 10 million</li> <li>To compare &amp; order numbers</li> <li>Identify place value of digits</li> </ul>	<ul> <li>Round whole numbers to required degree of accuracy</li> <li>Calculate intervals in negative numbers</li> </ul>	<ul> <li>Use negative numbers in the context of temperature &amp; calculate across zero</li> <li>Solve number puzzles involving addition &amp; subtraction of positive &amp; negative numbers</li> </ul>
CALCULATIONS (ADDITION, SUBTRACTION, MULTIPLICATION & DIVISION)	<ul> <li>Add &amp; subtract large numbers</li> <li>Short multiplication of whole numbers &amp; decimals</li> <li>Use a formal written method for long multiplication</li> <li>Short division of whole numbers &amp; decimals</li> <li>Practise &amp; apply known multiplication facts</li> <li>Develop strategies to work out mental calculations</li> <li>Identify common multiples</li> <li>Solve addition &amp; subtraction number problems</li> </ul>	<ul> <li>Practise a formal written method for long multiplication</li> <li>Use a formal written method of long division</li> <li>Practise long division of whole numbers &amp; decimals</li> <li>Use estimation to check answers to calculations</li> <li>Write remainders as a fraction (in its simplest form)</li> <li>Practise &amp; apply known multiplication/division facts</li> <li>Use mental methods to add &amp; subtract large numbers</li> <li>Identify common factors &amp; prime numbers</li> <li>Use knowledge of the order of operations</li> <li>Solve multi-step word problems</li> </ul>	<ul> <li>Practise written methods for short &amp; long multiplication</li> <li>Practise written methods for short &amp; long division</li> <li>Practise written methods for multiplication &amp; division</li> <li>Practise written methods for long multiplication &amp; long division</li> <li>Determine whether to round up or down after division</li> <li>Practise &amp; apply known multiplication/division facts</li> <li>Perform mental calculations involving large numbers &amp; mixed operations</li> <li>Explore the order of operations using brackets</li> <li>Solve multi-step word problems</li> <li>Solve number puzzles involving multiplication &amp; division</li> </ul>
FRACTIONS	<ul> <li>Use common factors to simplify fractions</li> <li>Use common multiples to find equivalent fractions &amp; common factors to simplify fractions</li> <li>Add &amp; subtract fractions &amp; mixed numbers with different denominators</li> <li>Find the whole quantity given the quantity represented by a unit fraction</li> <li>Calculate the decimal equivalent of a fraction by division</li> <li>Identify the value of decimal fractions (to 3dp)</li> <li>Round decimals to nearest tenth or hundredth</li> <li>Multiply &amp; divide decimals by 10 and 100</li> <li>Multiply numbers with up to two decimal</li> </ul>	<ul> <li>Use the highest common factors to simplify fractions</li> <li>Compare &amp; order fractions (including improper fractions)</li> <li>Add &amp; subtract mixed numbers</li> <li>Round decimals to up to three decimal places</li> <li>Multiply &amp; divide decimals by 10, 100 and 1000</li> <li>Divide numbers with up to two decimal places by one-digit whole numbers</li> <li>Use written methods for division giving remainders as decimals</li> <li>Use equivalence between fractions, decimals &amp; percentages</li> </ul>	<ul> <li>Multiply pairs of fractions (write answer in its simplest form)</li> <li>Divide fractions by whole numbers</li> <li>Multiply &amp; divide decimals by 10, 100 and 1000</li> <li>Use written division methods where the answer has up to 2 decimal places</li> <li>Write remainders as fractions &amp; decimals in context of word problems</li> <li>Solve number problems involving fractions, decimals &amp; percentages mentally</li> <li>Calculate fractions &amp; percentages of amounts</li> </ul>

Maths Long Term Plan Year 6

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	places by whole numbers		
RATIO & PROPORTION	Simplify ratios	<ul> <li>Solve problems involving the calculation of percentages of amounts</li> <li>Use ratio to solve problems</li> <li>Solve problems involving proportion</li> </ul>	<ul> <li>Calculate fractions &amp; percentages of amounts</li> <li>Solve problems involving ratio &amp; proportion</li> <li>Use ratio notation in the context of scale drawing</li> </ul>
ALGEBRA	<ul> <li>Solve missing number problems &amp; begin to express such problems algebraically</li> <li>Generate &amp; describe number sequences</li> </ul>	<ul> <li>Solve a missing number problem algebraically</li> <li>Use formulae (in words &amp; algebraically)</li> <li>Generate &amp; describe number sequences</li> </ul>	<ul> <li>Solve equations with 2 unknown variables</li> <li>List all possible outcomes of combinations of 2 variables</li> <li>Generate &amp; describe number sequences</li> </ul>
MEASUREMENT	<ul> <li>Convert between standard units of length, mass &amp; capacity &amp; between miles &amp; kilometres</li> <li>Convert between standard units of length, mass &amp; capacity</li> <li>Find area &amp; perimeter using the formulae</li> <li>Solve word problems involving measures</li> <li>Solve word problems involving decimal notation of measures</li> <li>Solve word problems involving calculation &amp; conversion of units of measure</li> </ul>	<ul> <li>Read scales</li> <li>Recognise shapes with the same areas may have different perimeters (vie versa)</li> <li>Volume of cubes &amp; cuboids</li> <li>Solve word problems involving calculation &amp; conversion of units of measure</li> <li>Solve multi-step word problems involving measures</li> </ul>	<ul> <li>Add &amp; subtract positive &amp; negative numbers (e.g. in temperature)</li> <li>Use formulae to calculate areas of triangles/parallelograms</li> <li>Comparing volumes of cubes &amp; cuboids</li> <li>Solve multi-step word problems involving measures</li> <li>Solve practical measurement problems</li> </ul>
GEOMETRY	<ul> <li>Estimate angles</li> <li>Find unknown angles in triangles &amp; quadrilaterals</li> <li>Find missing angles (at a point; on a straight line; which are vertically opposite)</li> <li>Construct quadrilaterals</li> <li>Compare, classify &amp; describe properties of 2-D shapes</li> <li>Positions on a full coordinate grid</li> </ul>	<ul> <li>Construct triangles</li> <li>Properties of 3-D shapes</li> <li>Circles – diameter &amp; radius</li> <li>Draw shapes on the full coordinate grid</li> <li>Translate shapes on first quadrant</li> <li>Reflect a shape on the first quadrant</li> </ul>	<ul> <li>Find unknown angles in reguar polygons</li> <li>Construct 2-D shapes</li> <li>Nets for 3-D shapes</li> <li>Circles – name parts &amp; construct arcs &amp; sector</li> <li>Reflect shapes on the coordinate plane</li> </ul>
STATISTICS	Interpret & construct pie charts Interpret conversion graphs involving measures Calculate the mean in a set of data	Interpret & construct pie charts Interpret conversion graphs involving currencies line graphs for journeys Interpret the mean in a set of data	Interpret & construct line graphs involving temperature changes Calculate & interpret the mean in a set of data
REVIEW/ASSESSMENT	Use 'Rising Star Assessments' after each domain.	Use 'Rising Star Assessments' after each domain.	Use 'Rising Star Assessments' after each domain.