

Crosby Primary School

Year 6 Maths Long Term Plan



	A		B			
Autumn	<p>Place Value to 10,000,000 (2 weeks): Numbers to 1 million Numbers to 10 million - Value of each digit/Partition and Recombine Read/Write Powers of 10 Number line to 10 million Order/Compare Round whole numbers to required degree of accuracy</p>	<p>Four Operations (6 weeks): Add/subtract Solve multi-step problems Determine operation and methods <i>Multiply and Divide by Powers of 10</i> Common Multiples, Factors Rules of Divisibility Prime Numbers/Square and Cube Numbers Revise short multiplication Multiply 4d by 2d – long multiplication Short Division Division using factors Divide 4d by 2d – long division Interpret remainders as whole numbers, fractions or by rounding Solve problems with division Solve multi-step problems Order of Operations Mental calculations, with mixed operations and large numbers Reason from known facts Calculations involving all 4 operations/Solve problems Use estimation to check answers <i>Solve problems involving calculations and conversion of units of measure, using decimal notation to 3dp</i></p>		<p>Fractions (4 weeks): Equivalence Use common factors to simplify fractions Use common multiples to express fractions in the same denomination Compare and order (include >1) – same denominator/common numerator Mixed and Improper fractions Add and subtract – different denominators, mixed numbers – use equivalence Multi-step problems Multiply fractions by integers Multiply fractions by fractions Divide proper fractions by whole numbers Fractions of amounts Find the whole</p>	<p>Decimals (2 weeks): Place Value to 3dp Rounding decimals Add and subtract decimals Multiply/Divide by 10, 100, 1000 Multiply/divide decimals by integers Solve problems</p>	<p>Negative Numbers (1/2 week): Count forwards and backwards through zero. Find intervals across zero. Add/subtract/compare/order. Use negative numbers in context.</p>
Spring	<p>Percentages (2 week): Decimal and fraction equivalents. Fractions as division Understand percentages Fractions to % Equivalent FDP Order FDP % of amounts Solve problems involving calculating %</p>	<p>Measurement (1 week): Metric Measures Convert metric measures (revise multiply and divide by powers of 10) Solve problems converting units of measure (including decimals to 3dp) Convert between miles and km Imperial measures</p>	<p>Volume, Area and Perimeter (2 weeks): Shapes – same area Use formulae for area and perimeter Calculate area of triangles and parallelograms Calculate, estimate and compare volume of cubes and cuboids counting cubes/using standard units</p> <p>Revision Number (1 week): Roman Numerals</p>	<p>Properties of Shapes (3 weeks): Measure and classify angles Calculate angles Vertically opposite angles Angles in triangles Angles in triangles – special cases Missing angles Angles in quadrilaterals Angles in polygons Recognise, describe and build 3d shapes Nets of 3D shapes Illustrate/name parts of circles – radius, diameter, circumference Know diameter is twice the radius</p>	<p>Geometry: Position and Direction (1 week): Describe the position on the first quadrant/ full co-ordinate grid (4 quadrants) Draw and translate simple shapes on the co-ordinate plane and reflect them in the axes</p>	<p>Statistics (2 week): Line Graphs Dual Bar Charts Read and interpret pie charts Pie Charts and Percentages Calculate the mean</p>
Summer	<p>Ratio (3 weeks): Add or multiply? Use ratio language Ratio symbol Ratio and fractions Scale drawings Scale factors Similar shapes Ratio and proportion problems; Recipes</p>		<p>Algebra (3 weeks): One/twp step function machines Forming expressions Substitution Use simple formulae Form equations Solve one step/two step equations Find pairs of values Solve problems with two unknowns</p>	<p>Problem Solving Post SATS Project Work – Transition Unit/Investigations</p>		

