Class 5 Maths MTP – Year 6

ASPIRE

Autumn	Place Value	Calculation	Fractions	Converting units
	Numbers to 1,000,000 Numbers to 10,000,000 Read and write numbers to 10,000,000 Powers of 10 Number line to 10,000,000 Compare and order any integers Round any integer Negative numbers	Add and subtract integers Common factors Common multiples Rules of divisibility Primes to 100 Square and cube numbers Multiply up to a 4-digit number by a 2-digit number Solve problems with multiplication Short division Division using factors Introduction to long division Long division with remainders Solve problems with division Solve multi-step problems Order of operations Mental calculations and estimation Reason from known fact	Equivalent fractions and simplifying Equivalent fractions on a number line Compare and order (denominator) Compare and order (numerator) Add and subtract simple fractions Add and subtract any two fractions Add mixed numbers Subtract mixed numbers Multi-step problems Multiply fractions by integers Multiply fractions by fractions 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	Metric measures Convert metric measures Calculate with metric measures Miles and kilometres Imperial measures

Spring	Ratio	Decimals and Percentages	Statistics
	Add or multiply? Use ratio language Introduction to the ratio symbol Ratio and fractions Ratio problems Proportion problems Recipes	Decimal and fraction equivalents Fractions as division Understand percentages Fractions to percentages Equivalent fractions, decimals and percentages Order fractions, decimals and percentages Percentage of an amount – one step Percentage of an amount – multi-step Percentages – missing values	Line graphs Dual bar charts Read and interpret pie charts Pie charts with percentages Draw pie charts The mean

Geometry		
Shape	Position and Direction	Area, Perimeter and Volume
Measure and classify angles Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle – special cases Angles in a triangle – missing angles Angles in a quadrilateral Angles in polygons Circles Draw shapes accurately Nets of 3-D shapes Scale drawing Use scale factors Similar shapes	The first quadrant Read and plot points in four quadrants Solve problems with coordinates Translations Reflections	Shapes – same area Area and perimeter Area of a triangle – counting squares Area of a right-angled triangle Area of any triangle Area of a parallelogram Volume – counting cubes Volume of a cuboid

Summer	Algebra	Consolidation	Maths Enrichment
	1-step function machines 2-step function machines Form expressions Substitution Formulae Form equations Solve 1-step equations Solve 2-step equations Find pairs of values Solve problems with two unknowns	SATs preparation. Revisiting learning.	Open-ended investigations. Maths enrichment – careers; real-life application.