

Class 4 Maths MTP



ASPIRE

Autumn	Place Value		Addition and subtraction	
	<u>Year 4</u>	<u>Year 5</u>	<u>Year 4</u>	<u>Year 5</u>
	Represent numbers to 1,000 Partition numbers to 1,000 Number line to 1,000 Thousands Represent numbers to 10,000 Partition numbers to 10,000 Flexible partitioning of numbers to 10,000 Find 1, 10, 100, 1,000 more or less Number line to 10,000 Estimate on a number line to 10,000 Compare numbers to 10,000 Order numbers to 10,000 Roman numerals Round to the nearest 10 Round to the nearest 100 Round to the nearest 1,000 Round to the nearest 10, 100 or 1,000	Roman numerals to 1,000 Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000 Read and write numbers to 1,000,000 Powers of 10 10/100/1,000/10,000/100,000 more or less Partition numbers to 1,000,000 Number line to 1,000,000 Compare and order numbers to 100,000 Compare and order numbers to 1,000,000 Round to the nearest 10, 100 or 1,000 Round within 100,000 Round within 1,000,000 Understand negative numbers Count through zero in 1s Count through zero in multiples Compare and order negative numbers Find the difference	Add and subtract 1s, 10s, 100s and 1,000s Add up to two 4-digit numbers – no exchange Add two 4-digit numbers – one exchange Add two 4-digit numbers – more than one exchange Subtract two 4-digit numbers – no exchange Subtract two 4-digit numbers – one exchange Subtract two 4-digit numbers – more than one exchange Efficient subtraction Estimate answers Checking strategies	Mental strategies Add whole numbers with more than four digits Subtract whole numbers with more than four digits Round to check answers Inverse operations (addition and subtraction) Multi-step addition and subtraction problems Compare calculations Find missing numbers Problem solving Consolidation
Geometry: Shape				
	<u>Year 4</u>	<u>Year 5</u>	<u>Year 4</u>	<u>Year 5</u>
	Understand angles as turns Identify angles Compare and order angles Triangles Quadrilaterals Polygons Lines of symmetry	Complete a symmetrical figure	Understand and use degrees Classify angles Estimate angles Measure angles up to 180° Draw lines and angles accurately Calculate angles around a point Calculate angles on a straight line	Lengths and angles in shapes Regular and irregular polygons 3-D shapes

Spring	Multiplication and division		Fractions, Decimals and Percentages	
	<u>Year 4</u>	<u>Year 5</u>	<u>Year 4</u>	<u>Year 5</u>
	<p>Multiples of 3 Multiply and divide by 6 6 times-table and division facts Multiply and divide by 9 9 times-table and division facts The 3, 6 and 9 times-tables Multiply and divide by 7 7 times-table and division facts 11 times-table and division facts 12 times-table and division facts Multiply by 1 and 0 Divide a number by 1 and itself Multiply three numbers Factor pairs Use factor pairs Multiply by 10 Multiply by 100 Divide by 10 Divide by 100 Related facts – multiplication and division Informal written methods for multiplication Multiply a 2 and 3 digit numbers by a 1-digit number Divide a 2 and 3 digit numbers by a 1-digit number Divide a 3-digit number by a 1-digit number</p>	<p>Multiples Common multiples Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 Multiples of 10, 100 and 1,000 Multiply up to a 4-digit number by a 1-digit number Multiply a 2-digit number by a 2-digit number (area model) Multiply a 2-digit number by a 2-digit number Multiply a 3-digit number by a 2-digit number Multiply a 4-digit number by a 2-digit number Solve problems with multiplication Short division Divide a 4-digit number by a 1-digit number Divide with remainders Efficient division Solve problems with multiplication and division</p>	<p>Understand the whole Count beyond 1 Partition a mixed number Number lines with mixed numbers Compare and order mixed numbers Understand improper fractions Convert mixed numbers to improper fractions Convert improper fractions to mixed numbers Equivalent fractions on a number line Equivalent fraction families Add fractions and mixed numbers Subtract two fractions Subtract from whole amounts Subtract from mixed numbers Tenths as fractions and decimals Tenths on a place value chart Tenths on a number line Divide a 1-digit number by 10 Divide a 2-digit number by 10 Hundredths as fractions and decimals Hundredths on a place value chart Divide a 1- or 2-digit number by 100 Make a whole with tenths Make a whole with hundredths Partition decimals Compare and order decimals Round to the nearest whole number Halves and quarters as decimals</p>	<p>Find fractions equivalent to a unit fraction Find fractions equivalent to a non-unit fraction Recognise equivalent fractions Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions Compare fractions less than 1 Order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions with the same denominator Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number Add two mixed numbers Subtract fractions Subtract from a mixed number Subtract from a mixed number – breaking the whole Subtract two mixed numbers</p>
Geometry: length, perimeter and area				
	<u>Year 4</u>	<u>Year 5</u>		
	<p>Measure in kilometres and metres; equivalent lengths Perimeter on a grid; perimeter of rectangles; perimeter of rectilinear shapes Find missing lengths in rectilinear shapes Calculate perimeter of rectilinear shapes Perimeter of regular Perimeter of polygons What is area? Count squares Make shapes Compare areas</p>	<p>Perimeter of rectangles Perimeter of rectilinear shapes Perimeter of polygons Area of rectangles Area of compound shapes Estimate area</p>		

Summer	Statistics		Position and Direction		Units of measure	
	<u>Year 4</u>	<u>Year 5</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 4</u> <u>Consolidation of all topics</u>	<u>Year 5</u>
	Interpret charts Comparison, sum and difference Interpret line graphs Draw line graphs	Draw line graphs Read and interpret line graphs Read and interpret tables Two-way tables Read and interpret timetables	Describe position using coordinates Plot coordinates Draw 2-D shapes on a grid Translate on a grid Describe translation on a grid	Read and plot coordinates Problem solving with coordinates Translation Translation with coordinates Lines of symmetry Reflection in horizontal and vertical lines		Kilograms and kilometres Millimetres and millilitres Convert units of length Convert between metric and imperial units
Money and Time						
	<u>Year 4</u>			<u>Year 5</u>		
	Write money using decimals Convert between pounds and pence Compare amounts of money Estimate with money Calculate with money Solve problems with money Years, months, weeks and days Hours, minutes and seconds Convert between analogue and digital times Convert to the 24-hour clock Convert from the 24-hour clock			Adding - same decimal places Subtract - same decimal places Adding - different D.P Subtracting - different D.P. Wholes and decimals Hours, minutes & seconds Years, months, weeks & days Converting units of time Analogue to digital - 12 hour Analogue to digital - 24 hour Timetables		