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Year 5 and 6 Maths MTP

Autumn term:

Year 5	Year 6	
Place Value		
Week 1:		
Step 1: Numbers to 10,000 Step 2: Numbers to 100,000 Step 3: Numbers to 1,000,000 Step 4: Read and write numbers to 1,000,000 Step 5: Powers of 10	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	
Week 2:		
Step 6: 10/100/1,000/10,000/100,000 more or less Step 7: Partition numbers to 1,000,000 Step 8: Number line to 1,000,000 Step 9: Compare and order numbers to 100,000 Step 10: Compare and order numbers to 1,000,000	Step 5: Number lines to 10,000,000 Step 6: Compare and order any integers Step 7: Round any integer Step 8: Negative numbers	
Week 3:		
Step 11: Round to the nearest 10, 100 or 1,000 Step 12: Round within 100,000 Step 13: Round within 1,000,000 Step 14: Roman numerals to 1,000		
Addition, Subtraction, Multiplication and Division		
Week 1:		
<i>Addition and Subtraction:</i> Step 1: Mental strategies	Step 1: Add and subtract integers Step 2: Common factors	



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Step 2: Add whole numbers with more than 4 digits Step 3: Subtract whole numbers with more than 4 digits	Step 3: Common multiples Step 4: Rules of divisibility
Week 2:	
Step 4: Round to check answers Step 5: Inverse operations Step 6: Multi-step addition and subtraction problems	Step 5: Primes to 100 Step 6: Square and cube numbers Step 7: Multiply up to a 4-digit number by a 2-digit number Step 8: Solve problems with multiplication
Week 3:	
Step 7: Compare calculations Step 8: Find missing numbers. <i>Multiplication and Division:</i> Step 1: Multiples Step 2: Common multiples	Step 9: Short division Step 10: Division using factors Step 11: Introduction to long division Step 12: Long division with remainders
Week 4:	
Step 3: Factors Step 4: Common factors Step 5: Prime numbers Step 6: Square numbers Step 7: Cube numbers	Step 13: Solve problems with division Step 14: Solve multi-step problems Step 15: Order of operations
Week 5:	
Step 8: Multiply by 10,100 and 1,000 Step 9: Divide by 10, 100 and 1,000 Step 10: Multiples of 10, 100 and 1,000	Step 15: Order of operations Step 16: Mental calculations and estimation Step 17: Reason for known facts



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Converting Units	
	Week 1:
	Step 1: Metric measures Step 2: Convert metric measures Step 3: Calculate with metric measures Step 4: Miles and kilometres Step 5: Imperial measures
Fractions	
Week 1:	
Step 1: Find fractions equivalent to a unit fraction Step 2: Find fractions equivalent to a non-unit fraction Step 3: Recognise equivalent fractions Step 4: Convert improper fractions to mixed numbers Step 5: Convert mixed numbers to improper fractions	Step 1: Equivalent fractions and simplifying Step 2: Equivalent fractions on a numberline Step 3: Compare and order (denominator) Step 4: Compare and order (numerator)
Week 2:	
Step 6: Compare fractions less than 1 Step 7: Order fractions less than 1 Step 8: Compare and order fractions greater than 1 Step 9: Add and subtract fractions with the same denominator	Step 5: Add and subtract simple fractions Step 6: Add and subtract any two fractions Step 7: Add mixed numbers Step 8: Subtract mixed numbers Step 9: Multi-step problems
Week 3:	



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Step 10: Add fractions within 1 Step 11: Add fractions with total greater than 1 Step 12: Add to a mixed number Step 13: Add two mixed numbers	Step 10: Multiply fractions by integers Step 11: Multiply fractions by fractions Step 12: Divide a fraction by an integer Step 13: Divide any fraction by an integer
Week 4:	
Step 14: Subtract fractions Step 15: Subtract from a mixed number Step 16: Subtract from a mixed number - breaking the whole Step 17: Subtract two mixed numbers	Step 14: Mixed fractions with fractions Step 15: Fraction of an amount Step 16: Fraction of an amount - find the whole

Spring term:

Year 5	Year 6
Multiplication and Division	Decimals
Week 1:	
Step 1: (Recap) Multiply 2 and 3-digit numbers by 1-digit numbers. Step 2: Multiply 4-digit numbers by 1-digit numbers Step 3: Multiply 2-digit numbers by 2-digit numbers	Step 1: Place value within 1 (tenths, hundredths, thousandths) Step 2: Round decimals Step 3: Add and subtract decimals Step 4: Multiply by 10, 100 and 1,000 Step 5: Divide by 10, 100 and 1,000
Week 2:	
Step 4: Multiply 3-digit numbers by 2-digit numbers Step 5: Multiply 4-digit numbers by 2-digit numbers	Step 6: Multiply decimals by integers Step 7: Divide decimals by integers



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Year 5 and 6 Maths MTP

	Step 8: Multiply and divide decimals in contexts
Week 3:	Fractions, decimals and percentages
Step 6: (Recap) Divide 2 and 3-digit numbers by 1-digit numbers Step 7: Divide 4 digit numbers by 1 digit numbers Step 8: Divide with remainders	Week 1:
Fractions	Step 1: Fraction and decimal equivalents Step 2: Understand percentages Step 3: Fractions to percentages Step 4: Equivalent Fractions, decimals and percentages
Week 1:	Week 2:
Step 1: Multiply a unit fraction by an integer Step 2: Multiply a non-unit fraction by a integer Step 3: Multiply mixed numbers by integers Step 4: Calculate a fraction of a quantity	Step 5: Order fractions, decimals and percentages Step 6: Percentages of amounts (one step) Step 7: Percentages of amounts (multi step) Step 8: Percentages - miss values
Week 2:	Ratio
Step 5: Fraction of an amount Step 6: Find the whole Step 7: Use fractions as operators	Week 1:
Decimals and percentages	Step 1: Use ratio language Step 2: Introduction to the ratio symbol Step 3: Calculating ratio Step 4: Ratio and fractions
Week 1:	Week 2:
	Step 5: Scale drawing / using scale factors



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<p>Step 1: Decimals up to 2 decimal places Step 2: Equivalent fractions and decimals (tenths) Step 3: Equivalent fractions and decimals (thousandths) Step 4: Understanding thousandths (in place value charts, decimals and fractions)</p>	<p>Step 6: Ratio and proportion problems <i>Recipes</i></p>
	Algebra
<p>Week 2:</p>	<p>Week 1:</p>
<p>Step 5: Order and compare decimals Step 6: Rounding decimals (whole number and nearest decimal place) Step 7: Understand percentages</p>	<p>Step 1: Find a rule (1 and 2 step / function machines) Step 2: Form expressions Step 3: Substitution Step 4: Formulae Step 5: Form equations</p>
<p>Week 3:</p>	<p>Week 2:</p>
<p>Step 8: Percentages and fractions and decimals Step 9: Equivalent fractions, decimals and percentages</p>	<p>Step 6: Solve 1-step equations Step 7: Solve 2-step equations Step 8: Find pairs of values Step 9: Solve problems with 2 unknowns</p>
Area and perimeter	Area, perimeter and volume
<p>Week 1:</p>	
<p>Step 1: Perimeter of rectangles Step 2: Perimeter of rectilinear shapes Step 3: Perimeter of polygons</p>	<p>Step 1: Shapes - same area Step 2: Area and perimeter Step 3: Area of triangles (counting squares, right angled triangles, area of any triangles)</p>
<p>Week 2:</p>	



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Step 4: Area of rectangles Step 5: Area of compound shapes Step 6: Estimate area	Step 4: Area of a parallelogram Step 5: Volume - counting cubes Step 6: Volume of a cuboid
Statistics	
Week 1:	
<i>Recap: Interpret charts</i> Step 1: Read and interpret line graphs Step 2: Draw line graphs	Step 1: Read, interpret and draw line graphs Step 2: Dual bar graphs Step 3: Read and interpret pie charts
Week 2:	
Step 3: Read and interpret tables Step 4: Two-way tables Step 5: Read and interpret timetables	Step 4: Pie charts with percentages Step 5: Draw pie charts Step 6: The mean

Summer term:

Year 5	Year 6
Shape	
Week 1:	
Step 1: Understand and use degrees Step 2: Classify angles Step 3: Estimate angles Step 4: Measure angles up to 180°	Step 1: Measure and classify angles Step 2: Calculate angles Step 3: Vertically opposite angles Step 4: Angles in a triangle



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Week 2:	
Step 5: Draw lines and angles accurately Step 6: Calculate angles around a point Step 7: Calculate angles on a straight line	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
Week 3:	
Step 8: Lengths and angles in shapes Step 9: Regular and irregular polygons Step 10: 3-D shapes	Step 9: Circles Step 10: Draw shapes accurately Step 11: Nets of 3-D shapes
Position and Direction	
Week 1:	
Step 1: Read and plot coordinates Step 2: Problem solving with coordinates Step 3: Translation	Step 1: The first quadrant Step 2: Read and plot points in four quadrants Step 3: Solve problems with coordinates Step 4: Translations Step 5 Reflections
Week 2:	
Step 4: Translation with coordinates Step 5: Lines of symmetry Step 6: Reflection in horizontal and vertical lines	
Decimals	
Week 1:	
Step 1: Use known facts to add and subtract decimals within 1	



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Step 2: Complements to 1
Step 3: Add and subtract decimals across 1

Week 2:

Step 4: Add decimals with the same number of decimal places
Step 5: Subtract decimals with the same number of decimal places
Step 6: Add decimals with different numbers of decimal places

Week 3:

Step 7: Subtract decimals with different numbers of decimal places
Step 8: Efficient strategies for adding and subtracting decimals

Negative units

Week 1:

Step 1: Understand negative numbers
Step 2: Count through zero in 1s
Step 3: Count through zero in multiples
Step 4: Compare and order negative numbers
Step 5: Find the difference

Converting units

Week 1:

Problem solving and investigations



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Step 1: Kilograms and kilometres Step 2: Millimetres and millilitres Step 3: Convert units of length	
Week 2:	
Step 4: Convert between metric and imperial units Step 5: Convert units of time Step 6 Calculate with timetables	
Volume	
Week 1:	
Step 1: Cubic centimetres Step 2: Compare volume Step 3: Estimate volume Step 4: Estimate capacity	