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Year 3 and 4 Maths MTP

Autumn term:

Year 3	*Year 4*
Place Value	
Week 1:	
Step 1: Represent numbers to 100 Step 2: Partition numbers to 100 Step 3: Number line to 100 Step 4: Hundreds Step 5: Hundreds, tens and ones	Step 1: Represent numbers to 1000 Step 2: Partition numbers to 1000 Step 3: Number line to 1000 Step 4: Thousands Step 5: Represent numbers to 10,000
Week 2:	
Step 6: Represent numbers to 1000 Step 7: Partition numbers to 1000 Step 8: Flexible partitioning of numbers to 1000 Step 9: Number line to 1000 Step 10: Estimate on a number line to 1000	Step 6: Partition numbers to 10,000 Step 7: Flexible partitioning of numbers to 10,000 Step 8: Number line to 1,000 Step 9: Estimate on a number line to 10,000
Week 3:	
Step 11: Compare numbers to 1000 Step 12: Order numbers to 1000 Step 13: Find 1, 10, 100 more or less Consolidation *Fluency starter throughout unit: Count in 50s*	Step 10: Compare numbers to 10,000 Step 11: Order numbers to 10,000 Step 12: Find 1, 10, 100, 1000 more or less Step 13: Roman numerals
	Week 4:
	Step 14: Round to the nearest 10 Step 15: Round to the nearest 100

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<table>
<tr><td></td><td>Step 16: Round to the nearest 1000
Step 17: Round to the nearest 10, 100 or 1000</td></tr>
<tr><td colspan="2">Addition and Subtraction</td></tr>
<tr><td colspan="2">Week 1:</td></tr>
<tr><td>Step 1: Add and subtract 1s
Step 2: Add and subtract 10s
Step 3: Add and subtract 100s
Step 4: Apply number bonds within 10/spot the pattern
Numbers shown in Place Value Charts (PVCs) using pictorial representations of Base 10 and PV counters</td><td>Step 1: Add and subtract 1s, 10s, 100s and 1000s
Step 2: Add up to two 4 digit numbers (no exchange)
Step 3: Add two 4-digit numbers (one exchange)
Step 4: Add two 4 digit numbers (more than one exchange)</td></tr>
<tr><td>Weeks 2, 3 and 4</td><td>Week 2</td></tr>
<tr><td rowspan="3">Step 5: Add 1s across a 10
Step 6: Add 10s across a 100
Step 7: Add two numbers (no exchange)
Step 8: Add two numbers (across a 10)
Step 9: Add two numbers (across a 100)
Step 10: Add 2 digit and 3 digit numbers.

Step 11: Subtract 1s across a 10
Step 12: Subtract 10s across a 100
Step 13: Subtract two numbers (no exchange)
Step 14: Subtract two numbers (across a 10)
Step 15: Subtract two numbers (across a 100)
Step 16: Subtract a 2 digit number from a 3 digit number

Calculations solved using number lines and in PVCs using pictorial representations of base 10 and PV counters. When able, children using digits to represent numbers in PVCs, followed by formal column method)</td><td>Step 5: Subtract two 4-digit numbers (no exchange)
Step 6: Subtract two 4-digit numbers (one exchange)
Step 7: Subtract two 4-digit numbers (more than one exchange)</td></tr>
<tr><td>Week 3:</td></tr>
<tr><td>Step 8: Efficient subtraction
Step 9: Estimate answers
Step 10: Checking strategies</td></tr>
</table>

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Week 5:	
Step 17: Complements to 100 Step 18: Estimate answers Step 19: Inverse operations	
Multiplication and Division	
Week 1:	
Step 1: Multiplication (equal groups) Step 2: Multiples of 2, 5 and 10 Step 3: Using arrays *Fluency starters: Counting in 2s, 5s, 10s*	Step 1: Multiples of 3 Step 2: 6 times table multiplication and division facts Step 3: 9 times table multiplication and division facts Step 4: 7 times table multiplication and division facts Step 5: 11 times table multiplication and division facts *Fluency starters: Counting in 3s, 6s 9s, 7s, 11s, 12s*
Week 2:	
Step 4: Multiply 1 and 2-digit numbers by 1-digit numbers using an appropriate method. (Questions must include, but are not limited to, multiplying by 3, 4 and 8) *Calculations solved using arrays, number lines and partitioned arrays (grid method) when **multiplying 2-digit numbers by 1-digit numbers.*** *Fluency starters: Counting in 3s, 4s and 8s* *(Additional sessions can be spent looking at relationship between 2, 4 and 8 times tables if required)*	Step 6: 12 times table multiplication and division facts Step 7: Multiply 2 and 3-digit numbers by 1-digit numbers using an appropriate method.(Questions must include, but are not limited to, dividing by 3, 6, 7, 9, 1 and 0) Step 8: Multiply three numbers *Fluency starters: Counting 3s, 6s, 9s, 7s, 11s and 12s* *Calculations solved using partitioned arrays (grid method) and short column method when **multiplying 2-digit and 3-digit numbers by 1-digit numbers***

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Week 3:	
Step 5: Sharing and grouping Step 6: Divide 1 and 2-digit numbers by 1-digit numbers using an appropriate method. (Questions must include, but are not limited to, dividing by 3, 4 and 8) *Calculations solved by arrays, number lines and sharing arrays when* ***dividing 2-digit numbers by 1-digit numbers.*** *Fluency starters: Counting in 3s, 4s and 8s (Additional sessions can be spent looking and relationship between 2, 4 and 8 times tables)*	Step 9: Divide 2 and 3-digit numbers by 1 digit numbers. (Questions must include, but are not limited to, dividing by 3, 6, 9, 7, 1, 0 and itself) *Fluency starters: Counting 3s, 6s, 9s, 7s, 11s and 12s* *Calculations solved by sharing arrays and formal method when* ***dividing 2-digit and 3-digit numbers by 1-digit numbers.***
Week 4:	
Step 7: Multiples of 10 Step 8: Related calculations Step 9: Link multiplication and division (fact families) Step 10: Scaling Step 11: How many ways?	Step 10: Factor pairs Step 11: Using factor pairs Step 12: Multiply by 10 and 100 Step 13: Divide by 10 and 100
Week 5:	
Consolidation	Step 14: Related facts Step 15: Correspondence ***Consolidation***

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Spring term:

Year 3	*Year 4*
Length and perimeter	
Week 1:	
Step 1: Measure in centimetres Step 2: Measure in centimetres and metres Step 3: Measure in millimetres Step 4: Measure in centimetres and millimetres Step 5: Measure in millimetres, centimetres and metres	Step 1: *Recap* - Measure in centimetres and millimetres Step 2: Measure in kilometres and metres Step 3: Equivalent measures (kilometres and metres) Step 4: Perimeter on grid Step 5:Perimeter of a rectangle
Week 2:	
Step 6: Equivalent measures (centimetres and metres) Step 7: Equivalent measures (centimetres and millimetres) Step 8: Compare lengths Step 9: Add lengths Step 10: Subtract lengths	Step 6: Perimeter of a rectilinear shape Step 7: Find missing lengths of rectilinear shapes Step 8: Calculate perimeter of rectilinear shapes Step 9: Perimeter of regular polygons Step 10: Perimeter of polygons
Week 3:	**Area**
Step 11: What is perimeter? Step 12: Measure perimeter Step 13: Calculate perimeter	Week 1:
	Step 1: What is area?

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	Step 2: Count squares Step 3: Make shapes Step 4: Compare area
Fractions	
Week 1:	
Step 1: Understand the denominators of unit fractions Step 2: Order and compare unit fractions Step 3: Understand the numerators of non-unit fractions Step 4: Understand fractions equivalent to 1 whole	Step 1: Understand the whole Step 2: Count beyond 1 Step 3: Partition a mixed number Step 4: Mixed numbers on number lines Step 5: Compare and order mixed numbers
Week 2:	
Step 5: Compare and order non-unit fractions Step 6: Fractions and scales Step 7: Fractions on number lines	Step 6: Understand improper fractions Step 7: Convert mixed numbers into improper fractions Step 8: Convert improper fractions to mixed numbers Step 9: Equivalent fractions on a number lines
Week 3:	
Step 8: Count in fractions on a number line Step 9: Equivalent fractions on a numberline Step 10: Equivalent fractions as bar models	Step 10: Equivalent fraction families Step 11: Add 2 or more fractions Step 12: Add fractions and mixed numbers
Week 4:	

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Step 11: Adding fractions with the same denominator (less than 1 whole) Step 12: Adding fractions with the same denominator (greater than 1 whole) Step 13: Subtracting fractions with the same denominator (less than 1 whole)	Step 13: Subtract 2 fractions Step 14: Subtract from whole amounts Step 15: Subtract from mixed numbers
Week 5:	**Decimals**
Step 14: Subtracting fractions with the same denominator (Greater than 1 whole) Step 15: Finding a fraction of an amount (unit fractions) Step 16: Finding fraction of an amount (non-unit fraction)	Week 1:
Mass and capacity	Step 1: Tenths as fractions Step 2: Tenths as decimals Step 3: Tenths on place value charts Step 4: Tenths on a number line
Week 1:	Week 2:
Step 1: Using scales Step 2: Measure mass in grams Step 3: Measure mass in kilograms and grams Step 4: Equivalent masses (kilograms and grams)	Step 5: Divide a 1-digit number by 10 Step 6: Divide a 2-digit number by 10 Step 7: Hundredths as fractions Step 8: Hundredths as decimals
Week 2:	Week 3:
Step 5: Compare mass Step 6: Add and subtract mass Step 7: Measure capacity and volume in millilitres Step 8: Measure capacity and volume in litres and millimetres	Step 9: Hundredths on a place value chart Step 10: Divide a 1 or 2-digit number by 100 Step 11: Make a whole Step 12: Compare decimals Step 13: Order decimals

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Week 3:	Week 4:
Step 9: Equivalent capacities and volumes in litres and millimetres Step 10: Compare capacity and volume Step 11: Add and subtract capacity and volume	Step 14: Round decimals to the nearest whole number Step 15: Round decimals to the nearest tenth Step 16: Halves and quarters

Summer term:

Year 3	*Year 4*
Money	
Week 1:	
Step 1: Pounds and pence Step 2: Convert pounds and pence	Step 1: Write money using decimals Step 2: Convert between pounds and pence Step 3: Compare amounts of money
Week 2:	
Step 3: Add money Step 4: Subtract money Step 5: Find change	Step 4: Estimate with money Step 5: Calculate with money Step 6: Solve problems with money
Time	
Week 1:	
Step 1: Years, months and days Step 2: Days and hours Step 3: Roman numerals to 12 Step 4: Tell the time to 5 minutes	Step 1: Years, months, weeks and days Step 2: Hours, minutes and seconds Step 3: Convert between analogue and digital times

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Week 2:	
Step 5: Tell the time to the minute Step 6: Read time on a digital clock Step 7: Use am and pm Step 8: Hours and minutes – use start and end times	Step 4: Convert to the 24-hour clock Step 5: Convert from the 24-hour clock
Week 3:	
Step 9: Hours and minutes - use durations Step 10: Minutes and seconds Step 11: Units of time Step 12: Solve problems with time	
Shape	
Week 1:	
Step 1: Turns and angles Step 2: Right angles Step 3: Compare angles Step 4: Measure and draw accurately Step 5: Horizontal and vertical	Step 1: Understand angles as turns Step 2: Identify angles Step 3: Compare and order angles Step 4: Triangles
Week 2:	
Step 6: Parallel and perpendicular Step 7: Recognise and describe 2-D shapes Step 8: Draw polygons Step 9: Recognise and describe 3-D shapes Step 10: Make 3-D shapes	Step 5: Quadrilaterals Step 6: Polygons Step 7: Lines of symmetry Step 8: Complete a symmetric figure
Statistics	**Position and direction**

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Week 1:	Week 1:
Step 1: Interpret pictograms Step 2: Draw pictograms Step 3: Interpret bar charts	Step 1: Describe position using coordinates Step 2: Plot coordinates Step 3: Draw 2-D shapes on a grid
Week 2:	Week 2:
Step 4: Draw bar charts Step 5: Collect and represent data Step 6: Two-way tables	Step 4: Translate on a grid Step 5: Describe translation on a grid
Consolidation	**Statistics**
	Step 1: Interpret charts Step 2: Comparison, sum and difference Step 3: Interpret line graphs Step 4: Draw line graphs
	Consolidation