



# Chesterton

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Chesterton Primary School

Year 3 and 4 Maths MTP

### ***Autumn term:***

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



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>Step 16: Round to the nearest 1000</p> <p>Step 17: Round to the nearest 10, 100 or 1000</p>                                                                                                                                           |
| <b>Addition and Subtraction</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                          |
| Week 1:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                          |
| <p>Step 1: Add and subtract 1s</p> <p>Step 2: Add and subtract 10s</p> <p>Step 3: Add and subtract 100s</p> <p>Step 4: Apply number bonds within 10/spot the pattern</p> <p><i>Numbers shown in Place Value Charts (PVCs) using pictorial representations of Base 10 and PV counters</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Step 1: Add and subtract 1s, 10s, 100s and 1000s</p> <p>Step 2: Add up to two 4 digit numbers (no exchange)</p> <p>Step 3: Add two 4-digit numbers (one exchange)</p> <p>Step 4: Add two 4 digit numbers (more than one exchange)</p> |
| Weeks 2, 3 and 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Week 2                                                                                                                                                                                                                                   |
| <p>Step 5: Add 1s across a 10</p> <p>Step 6: Add 10s across a 100</p> <p>Step 7: Add two numbers (no exchange)</p> <p>Step 8: Add two numbers (across a 10)</p> <p>Step 9: Add two numbers (across a 100)</p> <p>Step 10: Add 2 digit and 3 digit numbers.</p><br><p>Step 11: Subtract 1s across a 10</p> <p>Step 12: Subtract 10s across a 100</p> <p>Step 13: Subtract two numbers (no exchange)</p> <p>Step 14: Subtract two numbers (across a 10)</p> <p>Step 15: Subtract two numbers (across a 100)</p> <p>Step 16: Subtract a 2 digit number from a 3 digit number</p><br><p><i>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)</i></p> | <p>Step 5: Subtract two 4-digit numbers (no exchange)</p> <p>Step 6: Subtract two 4-digit numbers (one exchange)</p> <p>Step 7: Subtract two 4-digit numbers (more than one exchange)</p>                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>Week 3:</p><br><p>Step 8: Efficient subtraction</p> <p>Step 9: Estimate answers</p> <p>Step 10: Checking strategies</p>                                                                                                               |



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| Week 5:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Step 17: Complements to 100<br>Step 18: Estimate answers<br>Step 19: Inverse operations                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Multiplication and Division                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Week 1:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Step 1: Multiplication (equal groups)<br>Step 2: Multiples of 2, 5 and 10<br>Step 3: Using arrays<br><br><i>Fluency starters: Counting in 2s, 5s, 10s</i>                                                                                                                                                                                                                                                                                                                                     | Step 1: Multiples of 3<br>Step 2: 6 times table multiplication and division facts<br>Step 3: 9 times table multiplication and division facts<br>Step 4: 7 times table multiplication and division facts<br>Step 5: 11 times table multiplication and division facts<br><br><i>Fluency starters: Counting in 3s, 6s 9s, 7s, 11s, 12s</i>                                                                                                                                                                        |
| 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)<br><br><i>Calculations solved using arrays, number lines and partitioned arrays (grid method) when <b>multiplying 2-digit numbers by 1-digit numbers</b>.</i><br><i>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)</i> | Step 6: 12 times table multiplication and division facts<br>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)<br>Step 8: Multiply three numbers<br><i>Fluency starters: Counting 3s, 6s, 9s, 7s, 11s and 12s</i><br><br><i>Calculations solved using partitioned arrays (grid method) and short column method when <b>multiplying 2-digit and 3-digit numbers by 1-digit numbers</b></i> |



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| Week 3:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                           |
| <p>Step 5: Sharing and grouping</p> <p>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)</p> <p><i>Calculations solved by arrays, number lines and sharing arrays when <b>dividing 2-digit numbers by 1-digit numbers</b>.</i></p> <p><i>Fluency starters: Counting in 3s, 4s and 8s</i></p> <p><i>(Additional sessions can be spent looking and relationship between 2, 4 and 8 times tables)</i></p> | <p>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)</p> <p><i>Fluency starters: Counting 3s, 6s, 9s, 7s, 11s and 12s</i></p> <p><i>Calculations solved by sharing arrays and formal method when <b>dividing 2-digit and 3-digit numbers by 1-digit numbers</b>.</i></p> |
| Week 4:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                           |
| <p>Step 7: Multiples of 10</p> <p>Step 8: Related calculations</p> <p>Step 9: Link multiplication and division (fact families)</p> <p>Step 10: Scaling</p> <p>Step 11: How many ways?</p>                                                                                                                                                                                                                                                                                                                          | <p>Step 10: Factor pairs</p> <p>Step 11: Using factor pairs</p> <p>Step 12: Multiply by 10 and 100</p> <p>Step 13: Divide by 10 and 100</p>                                                                                                                                                                                                                               |
| Week 5:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>Consolidation</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Step 14: Related facts</p> <p>Step 15: Correspondence</p> <p><b>Consolidation</b></p>                                                                                                                                                                                                                                                                                  |



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Year 3 and 4 Maths MTP

### *Spring term:*

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



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



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



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Year 3 and 4 Maths MTP

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

***Summer term:***

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



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Year 3 and 4 Maths MTP

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



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Year 3 and 4 Maths MTP

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