

# Mathematics Curriculum Map: Reception Mastery

|          | Week 1   | Week 2      | Week 3 | Week  | 4 Week                   | 5  | Week 6                             | Week 7   | Week 8   | Week   | 0   | Wee   | k 10   | Week 11   |  |
|----------|--|-------------|--------|---|--------------------------|--|------------------------------------|--|--|--|---|---|--|---|--|
|          |  | mathematic  |        |   |                          |  | nd early                           | Numbers  | Addition and subtraction within 6  |  | Mossuros  |   | Shape and sorting  |   |  |
| Autumn   | <ul> <li>Classifying objects based on one attribute</li> <li>Matching equal and unequal sets</li> <li>Comparing objects and sets</li> <li>Ordering objects and sets</li> </ul> |             |        |   | copy a and siz           | nd ext<br>ze patt<br>and re<br>rs 1 to<br>te and                     | end colour<br>erns<br>epresent the | <ul> <li>Count up to six of</li> <li>One more or one</li> <li>Order numbers</li> <li>Conservation of within six</li> </ul> | <ul><li>Explore zero</li><li>Explore addition<br/>and subtraction</li></ul>  |  | <ul> <li>Estimate,<br/>order<br/>compare,<br/>discuss and<br/>explore<br/>capacity,<br/>weight and<br/>lengths</li> </ul>                       |   | <ul> <li>Describe,<br/>and sort 3-<br/>D shapes</li> <li>Describe<br/>position<br/>accurately</li> </ul> |   |  |
|          | Week 1 Week 2  |             |        | Week 3  | Week                     | <b>.</b> 4   | Week 5                             | Week 6   | Week 7   | Week 8   | Week 8  |   |  | Week 9  |  |
| <b>D</b> | Numbers within 10  |             |        | Calendar<br>and time                          | Addition subtract within | ction  | on Grouping and sharing            |  | Number patte   | Number patterns within 15  |   | Doubling and halving  |  | Shape and pattern   |  |
| Spring   | <ul> <li>Count up to ten objects</li> <li>Represent, order and explore numbers to ten</li> <li>One more or fewer, one greater or less</li> </ul>                               |             |        | seasons cour • Sequence and daily events subt |                          | equal grouters equal grouters Grouping tens Fraction king grouping a |                                    | nto fives and ip between   | recognise difference representation  Order and expentation patterns to 15  | Count up to 15 objects and recognise different representations Order and explore number patterns to 15 One more or fewer |   | <ul> <li>Doubling and<br/>halving</li> <li>Relationship<br/>between<br/>doubling and<br/>halving</li> </ul> |  | ribe and sort<br>and 3-D<br>es<br>gnise,<br>alete and<br>e patterns |  |
|          | Week 1   | Week 2      | Week   | 3   | Week 4                   |  | Week 5                             | Week 6   | Week 7   | Week 8   | We  | eek 9   |  | Week 10   |  |
| ا        | Securing ac  | Idition and |        | Number patterns within 20                     |                          |  | mber patterns<br>beyond 20         |  |  | Measures   |   | Exploration of patterns within number   |  |   |  |
| Summer   | Commutativity     Explore addition and subtraction     Compare two amounts      Count up to with objects     Represent, of explore num     One more of                         |             |        | ects<br>ent, com<br>numbers                   | pare and<br>s to 20      | beyond One more one less e and Estimate and                          |                                    | <ul> <li>Coin recognition and values</li> <li>Combinations to total 20p</li> <li>Change from 10p</li> </ul>                | <ul> <li>Describe ca</li> <li>Compare vo</li> <li>Compare w</li> <li>Estimate, co</li> <li>order length</li> </ul> | olumes<br>eights<br>ompare and   | <ul> <li>Explore numbers and s</li> <li>Recognise and extend</li> <li>Apply number, shape a knowledge</li> <li>Count forwards and ba</li> </ul> |   | patterns<br>and measures   |   |  |





# Mathematics Curriculum Map: Year 1 Mastery

|          | Week 1   | Week 2                     | Week 3   | Week 4                             | Week 5   | We                 | ek 6  | Week 7  | Week 8  | Week 9   | Week 10   |  |
|----------|--|----------------------------|--|------------------------------------|--|--------------------|---|---|---|--|-----------|--|
| <u>_</u> | Numbers to 10  |                            |  | Addition and subtraction within 10 |  | Shape and patterns |   | Numb  | ers to 20   | Addition and subtraction within 20   |           |  |
| Autumn   | Represent, c<br>explore numl     One more an     Doubling and  | bers within 10 nd one less | <ul> <li>Represent and explain<br/>addition and subtraction</li> <li>Commutativity</li> <li>Addition and subtraction facts</li> </ul>  |                                    | <ul> <li>Identify, describe, sort and classify 2-D and 3-D shapes</li> <li>Investigate repeating patterns</li> <li>Use and follow instructional and positional language</li> </ul> |                    | hapes<br>patterns<br>tional   | <ul> <li>Identify, represent, compare<br/>and order numbers to 20</li> <li>Doubling and halving</li> <li>One more and one less</li> </ul> |   | <ul> <li>Represent and explain<br/>addition and subtraction<br/>strategies including 'Mal<br/>Ten'</li> <li>Use known facts to add<br/>subtract</li> </ul> |           |  |
|          | Week 1   | Week 2                     | Week 3   | Week 4                             | Week 5   | We                 | ek 6  | Week 7  | Week 8  | Week 9   | Week 10   |  |
| ng       | Т  | ime                        | Exploring calculation strategies within 20   | Numb                               | ers to 50  | s to 50            |   |   | d subtraction Fractions in 20   |  | ength and |  |
| Spring   | to o'clock and analogue clo • Sequencing   |                            | choose addition and • Count in 2s  |                                    | plore, compare. addition and equations complete Apply 'Make'   |                    | on and s<br>tions<br>''Make T<br>anguage  | to quantify and   | <ul> <li>Identify <sup>1</sup>/<sub>2</sub> and <sup>1</sup>/<sub>4</sub> of a shape or object</li> <li>Find <sup>1</sup>/<sub>2</sub> and <sup>1</sup>/<sub>4</sub> of a quantity</li> </ul> | <ul> <li>Compare and measure<br/>lengths and mass using cm<br/>and kg</li> <li>Doubling and halving</li> </ul>   |           |  |
|          | Week 1   | Week 2                     | Week 3   | Week 4 V                           | Veek 5 W   | /eek 6             | Weel  | k 7 Weel  | x 8 Week 9  | Week 10  | Week 11   |  |
|          | Numbers 50 to 100 and beyond   |                            | Addition a subtracti   | and                                | Money  |                    | Multiplication and division   |   |   | Measures: Capacity and volume  |           |  |
| Summer   | <ul> <li>Read, write, represent, compare and order numbers to 100</li> <li>One more / fewer, ten more / fewer</li> <li>Identify number patterns</li> </ul> |                            | <ul> <li>Explore addition and subtraction involving 2-digit numbers and ones</li> <li>Represent and explain</li> <li>Nanual under the control of the control</li></ul> |                                    | erstand their value resent the same value  |                    | <ul><li>Explore arrays</li><li>Share equally into grou</li><li>Doubling</li><li>Link halving to fractions</li></ul> |   | •   | <ul> <li>Compare capacities, volumes and lengths</li> <li>Explore litres</li> <li>Apply understanding of fractions to capacity</li> </ul>                  |           |  |





## Mathematics Curriculum Map: Year 2 Mastery

| <i>/</i> <b>11</b> | Mastery   |   |   | _  |   |  |   |  |  |   |   |   |         |  |
|--------------------|---|---|---|--|---|--|---|--|--|---|---|---|---------|--|
|                    | Week 1  | Week 2  | Week 3  | Week 4                                       | We  | ek 5 We  | eek 6   | Week 7   | Week 8   | Week 9  | Week 10   | Week 11   | Week 12 |  |
| ا                  | Numbers within 100  |   |   |  |   | Addition and subtraction word problems   |   |  | es: Length   | Graphs  | hs Multiplication and division  |   |         |  |
| Autumn             | <ul> <li>Read, write, repartition, compared numbers</li> <li>Explore pattern including, odds evens, tens and</li> </ul>   | • Apply nu add and to 100 • Represe addition of two 2-  |   | and explain<br>d subtraction<br>jit numbers. | models as a representation  • Create, label and                                 |  | ır d  | <ul><li>Use &lt;, &gt; a compare a</li></ul>   | centimetres<br>and = to<br>and order<br>metres and | <ul> <li>Represent and interpret: pictogram block diagrams, tables and tally chart</li> </ul> | through arr • Explore div sharing • Connect m facts using • Calculate ti  | oing and as<br>and division<br>y and inverse<br>as of 2, 5, and |         |  |
|                    | Week 1  | Week 2  | Week 3  | 3 Weel                                       | <b>α</b> 4  | Week 5   | Wee   | ek 6   | Week 7   | Week 8  | Week 9  | Week 10   | Week 11 |  |
|                    | Time  | Fractions   |   |  | Addition and subtraction of 2-digit numbers                                     |  |   | Mone   |  | Face, shapes and patterns; lines and turns  |   |   |         |  |
| Spring             | <ul> <li>Tell the time on an analogue clock: quarter past, quarter to and five minute intervals</li> <li>Calculate durations of tim in minutes and seconds</li> <li>Sequence daily events</li> <li>Minutes in an hour and hours in a day</li> </ul> |   | <ul> <li>Part-whole relationships</li> <li>Fractions as part of a whole or a whole set</li> <li>Relate to division</li> <li>Equivalent fractions</li> </ul> |  | os  | • Illustrate, re explain addisubtraction regrouping i Ten', 'Roundand near do strategies | ition and<br>involving<br>including '<br>d and adju | notes  • Use £ and p accurately  • Make • Add and subtract amou  |  |   | <ul> <li>Explore, sort and describe 2-D shapes</li> <li>Lines of symmetry in 2-D shapes</li> <li>Identify 2-D shapes on 3-D shapes</li> <li>Compare and sort 2-D and 3-D shapes</li> <li>Use language to describe position, direction and rotation to follow a route</li> </ul> |   |         |  |
|                    | Week 1  | Weel  | ς 2   | Week 3                                       | V   | Veek 4   | V   | Veek 5   | \  | Week 6  | Week 7  | ,   | Week 8  |  |
| e                  | Numbers within 1000   | Meas  | Measures: Capacity and volume   |  |   | Moscuros   |   | Exploring calculation strategies   |  |   | Exploring multiplicative thinking   |   |         |  |
| Summer             | <ul> <li>Represent in different ways</li> <li>Compare using symbols</li> <li>Read scales</li> </ul>   | Represent in lifferent ways Compare sing symbols  • Read and measure temperature • Estimate, measure and understand litres and millilitres • Compare and order capacities |   |  | <ul><li>Weigh and compare masses in</li><li>Appl solve</li><li>Illust</li></ul> |  |   | ly addition and subtraction strategies to e equations trate and explain addition and subtraction g column method |  |   | <ul> <li>Pattern seek with multiples of 2, 3, 4 5 and 10 using an array</li> <li>Use known facts to derive facts from the 3 and 4 times tables.</li> <li>Connect multiplication and division facts using commutativity and inverse</li> </ul>                                   |   |         |  |





## Mathematics Curriculum Map: Year 3 Mastery

|        | Week 1  | Week 2                           | Week 3 | Week 4   | Week 5                                  | Week (  | 6 Week 7  | Week 8  | Week 9  | Week 10   | Week 11 |  |  |
|--------|---|----------------------------------|--------|--|---|---|---|---|---|---|---------|--|--|
|        |   | r sense and e<br>culation strate | -      | Place  | value                                   | Graph   | s Ad  | dition and su   | btraction   | traction Length and perimete  |         |  |  |
| Autumn |   |                                  |        | <ul> <li>Read, write, partition, ord compare 3-d</li> <li>Find 10 and less</li> <li>Round to the multiple of 10</li> </ul> | er and igit numbers 100 more or nearest | <ul> <li>Collect,<br/>interpret<br/>and<br/>present<br/>data usir<br/>charts ar<br/>tables</li> </ul> | calculatio • Illustrate methods   | and use a rangen strategies and explain fore column methe | mal written   | <ul> <li>Measure, draw and compare lengths</li> <li>Add and subtract length</li> <li>Calculate perimeter</li> </ul> |         |  |  |
|        | Week 1  | Week 2                           | Week 3 | B Week   | 4 We                                    | ek 5  | Week 6  | Week 7  | Week 8  | Week 9  | Week 10 |  |  |
|        | Multiplication and division Calcu                                   |                                  |        | lating with multiplication and division  |   |   | Tim   | е   | Fractions   |   |         |  |  |
| Spring | relationships: commutativity and inverse  • Multiply a • Divide 2-o |                                  |        | nd divide by 10<br>2-digit number by a 1-digit number<br>digit by a 1-digit<br>ndence problems                             |   |   | Tell, record, write<br>the time analogu<br>12-hour, a.m., p.<br>Measure, calcula<br>compare duratio | e and digital<br>m.<br>ite and                            | <ul> <li>Part-whole relationships</li> <li>Fractions as part of a whole or a whole set<br/>and as a number</li> <li>Add, subtract, compare and order fractions</li> </ul> |   |         |  |  |

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### Identify angles including right angles and recognise as a quarter of a turn

Week 3

• Identify and draw parallel and perpendicular lines

Week 2

**Angles and shape** 

- Draw/make, classify and compare 2-D and 3-D shapes
- Measure the perimeter

Week 1

#### Measures

Week 5

Week 6

- Read scales with different intervals when measuring mass and volume
- Weigh and compare masses and capacities with mixed units
- Estimate mass and capacity

# Applying multiplicative thinking

Week 7

- Representing multiplication and division problems
- Solve a onestep problem

### Exploring calculation strategies and place value

Week 9

- Add and subtract mentally
- Find 10, 100 and 1000 more or less
- Order and compare beyond 1000
- Round numbers

Week 8



The Dimensions of Depth - Conceptual Understanding, Language and Communication and Mathematical Thinking - underpin all aspects of the curriculum; problem solving is at the heart and is embedded in all units.

Week 4



# Mathematics Curriculum Map: Year 4 Mastery

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|---------|--|---|---|---|--|-------|---------------|---|--|---|--------------------|---|---|------------------|
|         | Week 1   | Week 2  | Week 3  | Week 4  | Week 5   | Weel  | кο            | Week 7  | Week   | ν V   | Veek 9             | Week  | -   | Week 11          |
| _       | Reasoning v<br>numb  | _   | Addition  | and subtrac   | and subtraction  |       |               | Multiplication and division   |  |   |                    |   |   | e and<br>us data |
| Autumn  | <ul> <li>4-digit place val<br/>write, represent<br/>compare</li> <li>Find 10, 100 or<br/>or less</li> <li>Round numbers<br/>nearest 10, 100</li> </ul> | , order and<br>1000 more<br>s to the  | and subtract • Illustrate and addition and          | oriate strategie<br>explain approp<br>subtraction stra<br>umn method wi | <ul> <li>Identify and explore patterns in multi-including 7 and 9</li> <li>Distributive property including multip numbers</li> <li>Mental multiplication and division str value and known and derived facts</li> <li>Short multiplication</li> </ul> |       |               | ding multiplyi  | iplying three 1-digit strategies using place |   |                    | <ul> <li>Read, interpret and<br/>construct pictograms, b<br/>charts and time graphs</li> <li>Compare tables,<br/>pictograms and bar<br/>charts</li> </ul> |   |                  |
|         | Week 1   | Week 2  | Week 3  | Week 4  | Week 5   | We    | eek 6         | Week  | 7 Wee  | ek 8  | Week 9             | Week  | 10  | Week 11          |
| <u></u> | Calculating<br>with<br>multiplication<br>and division  |   | Fract   | ons   |  |       | Time Decimals |   |  |   | Area and perimeter |   |   |                  |
| Spring  | <ul><li>Division using partitioning</li><li>Short division</li></ul>   | of fractions  | fractions<br>fractions greater<br>d improper fracti | than one as mons<br>with the same o                                     | than one as mixed<br>ns • ith the same denominator   |       |               | digital, 12- hour and 24-hour  Compare number Multiply  |  | cimal equivalents to tenths, quarters I halves I halves Impare and order numbers with same inber of decimal places Itiply and divide by 10 and 100 uding decimals |                    |   | <ul> <li>Perimeter of rectangles<br/>and rectilinear shapes</li> <li>Area of rectangles and<br/>rectilinear shapes</li> <li>Investigate area and<br/>perimeter</li> </ul> |                  |
|         | Week 1   | Week 2  | Week 3  | Week 4  | Weel   | k 5   | Weel          | k 6   | Week 7                                       | Week  | 8                  | Week 9  |   | Week 10          |
| er      | Solving measu  | ires and mo   | Shape a   | and symme   | try  | Posit | tion and      | direction   |  | ning with   | n pattern<br>nces  | 3   | B-D shape   |                  |
| Summer  | <ul> <li>Convert units of</li> <li>Select appropria</li> <li>Use strategies to and improvementables, working strategies</li> </ul>                     | <ul> <li>Classify, compare and order angles</li> <li>Compare and classify 2-D shapes</li> <li>Identify lines of symmetry</li> </ul> |   |   | coordinates -D • Describe translations   |       | · ·           | <ul> <li>Roman numerals</li> <li>100</li> <li>Place value of oth<br/>number systems</li> <li>Number sequence</li> <li>patterns</li> </ul> |  | under of 3-E s •Identi nces and shape   |                    | e<br>derstanding<br>3-D shapes<br>entify 3-D<br>apes from 2-D<br>presentations  |   |                  |





# Mathematics Curriculum Map: Year 5 Mastery

|        | Week 1  | Week 2  | Week 3  | Week 4   | Week 5  | Week 6   | Week 7  | Week 8  | Week 9                   | Week 10   |  |
|--------|---|---|---|--|---|--|---|---|--------------------------|---|--|
|        | _   | with large<br>ntegers   | Integer add<br>subtra   |  | Line graphs a   | nd timetables  | Multip  | plication and di  | vision                   | Perimeter and area  |  |
| Autumn | <ul> <li>Read, write, or compare number number willion</li> <li>Round number million to the roof powers of to Read Roman M</li> </ul> | rs within one<br>nearest multiple   | Use a range of mental calculation strategies to add and subtract integers     Illustrate and explain the written method of column |  |   | and interpret<br>n line graphs<br>ret timetables<br>iting intervals  | <ul><li>Investigate p</li><li>Multiply and (integers)</li><li>Multiply and</li><li>Use written in</li></ul> | iples and factors<br>orime numbers<br>divide by 10, 100<br>divide using deriv<br>methods to multipl<br>of mental calculat | ed facts<br>y and divide | <ul> <li>Investigate area and perimeter of rectilinear shapes</li> <li>Estimate area of non-rectilinear shapes</li> </ul> |  |
|        | Week 1  | Week 2  | Week 3  | Week 4   | Week 5  | Week 6   | Week 7  | Week 8  | Week 9                   | Week 10   |  |
|        | Frac  | tions and deci  | mals  | A  | ingles  | Fraction   | ons and perce   | entages   | Transfo                  | ormations   |  |
| Spring | <ul> <li>Round decima</li> <li>Represent, ide<br/>compare fracti<br/>mixed number</li> </ul>  | rder and compar<br>als to the nearest<br>entify, name, writ<br>ions (including in<br>s)<br>tions of amounts | whole number<br>e, order and<br>nproper and   | <ul><li>angles</li><li>Measure a a protractor</li><li>Understand</li></ul> | ompare and order draw angles with and use angle culate missing  |  | of the same num<br>ns (and mixed r  | numbers) by a   |                          | and reflection<br>ntervals across<br>ontext for   |  |
|        | Week 1  | Week 2  | Week 3  | Week 4   | Week 5  | Week 6   | Week 7  | Week 8  | Week 9                   | Week 10   |  |
|        |   | g units of  |   |  | numbers and   | 2-D and 3-D shape  |   | Volume  |                          | lem solving   |  |
| Summer | <ul> <li>Convert between of length, mas and units of tire.</li> <li>Know and use conversion be and metric.</li> </ul>                 | s and capacity<br>ne<br>approximate   | • Multiply involved and 1,000 and 1,000   | mals n strategies to ving decimals divide decimal 0 on, subtraction        | d subtract add, subtract and numbers by ten, and multiplication | <ul> <li>Classify 2-D sl reason about r irregular polyg</li> <li>Properties of duadrilaterals</li> <li>Classify 3-D sl</li> <li>2-D representationshapes.</li> </ul> | regular and<br>ons<br>liagonals of<br>napes   | notation zero  • Estimate   |                          | ntervals across<br>he mean<br>nainders  |  |





## Mathematics Curriculum Map: Year 6 Mastery

The first two units need to be taught before any other units as these cover place value and the four operations and ensure firm foundations for the rest of the learning. The remaining units can be taught in any order with the following caveats:

- The first five lessons of the first Fractions unit should be taught prior to learning on calculating with fractions.
- The Proportion problems unit should only be taught after the units on fractions, decimals and percentages.

#### 1) Integers and decimals (10 lessons)

- Represent, read, write, order and compare numbers up to ten million
- Round numbers, make estimates and use this to solve problems in context
- Solve multi-step problems involving addition and subtraction

#### 2) Multiplication and division (15 lessons)

- Identify and use properties of number, focusing on primes
- Multiply larger integers and decimal numbers using a range of strategies
- Divide integers by 1-digit and 2-digit numbers representing remainders appropriately
- Illustrate and explain formal multiplication and division strategies

#### 3) Calculation problems (10 lessons)

- Understand the use of brackets
- Use knowledge of the order of operations to carry out calculations
- Generate and describe linear number sequences
- Express missing number problems algebraically
- Solve equations with unknown values

#### 4) Fractions (10 lessons)

- Deepen understanding of equivalence
- Order, simplify and compare fractions, including those greater than one
- Recall equivalence between common fractions and decimals
- Find decimal quotients using short division
- Add and subtract fractions

#### 5) Missing angles and length (5 lessons)

- Compare and classify a range of geometric shapes
- Use angle facts to find unknown angles

### 6) Coordinates and shapes (10 lessons)

- Draw a range of geometric shapes using given dimensions and angles
- Describe, draw, translate and reflect shapes on a co-ordinate plane
- Recognise and construct 3-D shapes
- Name and illustrate parts of a circle

#### 7) Fractions (5 lessons)

- Represent multiplication involving fractions
- Multiply two proper fractions
- Divide a fraction by an integer

### 8) Decimals and measure (15 lessons)

- Use, read, write and convert between standard units of measures; length, mass, time, money and volume as well as imperial units
- Calculate the area of parallelograms and triangles
- Calculate, estimate and compare the volume of cuboids

#### 9) Percentage and statistics (10 lessons)

- Calculate and compare percentages of amounts
- Connect percentages with fractions
- Explore the equivalence of fractions, decimals and percentages
- Calculate the mean
- Construct and interpret lines graphs and pie charts
- Compare pie charts

#### 10) Proportion problems (10 lessons)

- Use fractions to express proportion
- Identify ratio as a relationship between quantities and as a scale factor
- Unequal sharing involving ratio

