

Mathematics

## Long Term Plan

## Year 2

Updated June 2023
To be read in conjunction with the Calculation Policy

## Year 2 Long Term Plan

|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week <br> 13 | Week 14 |
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| $\begin{aligned} & \frac{5}{5} \\ & \frac{1}{3} \\ & \hline \end{aligned}$ | NUMBER <br> Place Value |  |  |  | NUMBER <br> Addition and Subtraction Including explicit teaching of mental methods Addition |  |  |  | NUMBER Addition and Subtraction <br> Maths Week England |  |  | GEOMETRY Shape |  |  |
|  |  | NUMBER <br> Multiplication and Division |  |  | NUMBER <br> Fractions |  |  |  | MEASUREMENT |  |  |  |  |  |
| $\begin{aligned} & \frac{g}{\frac{1}{n}} \\ & \text { जे } \end{aligned}$ |  |  |  |  |  |  | Leng | and <br> ht |  | and ture |  |  |
| $\begin{aligned} & \frac{1}{N} \\ & \frac{1}{E} \\ & \frac{5}{J} \end{aligned}$ |  |  |  |  |  |  |  | $\frac{\curvearrowleft}{6}$ |  |  | Consol PiXL Time | ation of nalysis Tables <br> Mone | RTP's ocus <br> ocus <br> Maths |  |  |  |

Year 2 Medium Term Plan

| Autumn Term | Weeks 1-4 | Weeks 5-7 | Week 8 | Weeks 9-11 <br> Maths Week England | Weeks 12-14 |
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| Domain | Place Value | Addition and Subtraction |  | Addition and Subtraction | Shape |
| NC Objective | *Read and write numbers to at least 100 in numerals and in words <br> $\star$ Identify, represent and estimate numbers using different representations, including the number line <br> $\star$ Count in steps of 2, 3 and 5 from 0 , and in 10 s from any number, forward and backward <br> $\star$ Recognise the place value of each digit in a 2digit number (tens, ones) <br> $\star$ Compare and order numbers from 0 up to 100; use and = signs <br> Ensure coverage of: <br> $\star$ Use place value and number facts to solve problems. | $\star$ Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <br> * Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - a 2-digit number and 1s <br> - a 2-digit number and 10s <br> - two 2-digit numbers <br> - adding three 1 -digit numbers <br> $\star$ Solve problems with addition and subtraction: <br> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> - applying their increasing knowledge of mental and written methods <br> Ensure coverage of: <br> $\star$ Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <br> *Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. <br> Although formal algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3 |  | Maths Week England will be celebrated during this block with a set focus <br> *Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <br> * Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - a 2-digit number and 1 s <br> - a 2-digit number and 10 s <br> - two 2-digit numbers <br> - adding three 1-digit numbers <br> * Solve problems with addition and subtraction: <br> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> - applying their increasing knowledge of mental and written methods <br> Ensure coverage of: <br> $\star$ Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another canno $\dagger$ <br> $\star$ Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. | $\star$ Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line <br> $\star$ Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces <br> $\star$ Identify 2-D shapes on the surface of 3-D shapes <br> $\star$ Compare and sort common 2-D and 3-D shapes and everyday objects |



Year 2 Medium Term Plan

| Spring Term | Week 1 | Weeks 2-4 | Weeks 5-6 | Week 7 | Week 8 | Weeks 9-10 | Weeks 11-12 |
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| Domain | Money | Multiplication and Division | Fractions | Time |  | Length and Height | Mass, Capacity and Temperature |
| NC <br> Objective | « Recognise and use symbols for pounds $(£)$ and pence (p); combine amounts to make a particular value <br> $\star$ Find different combinations of coins that equal the same amounts of money <br> $\star$ Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change | * Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers <br> * Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $x$ ), division ( $(\div)$ and equals (=) signs <br> $\star$ Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot <br> $\star$ Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | * Recognise, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity <br> $\star$ Write simple fractions for example, $\frac{1}{2}$ of $6=3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ | $\star$ Compare and sequence intervals of time <br> $\star$ Tell and write the time, including quarter past/to the hour and draw the hands on a clock face to show these times <br> $\star$ Know the number of minutes in an hour and the number of hours in a day | $n$ <br>  <br>  <br> ư <br> un | » Choose and use appropriate standard units to estimate and measure length/height in any direction $(\mathrm{m} / \mathrm{cm})$; mass ( $\mathrm{kg} / \mathrm{g}$ ); temperature $\left({ }^{\circ} \mathrm{C}\right.$ ); capacity (litres $/ \mathrm{ml}$ ) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels <br> $\star$ Compare and order lengths, mass, volume/capacity and record the results using >, < and = | 夫 Choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); temperature $\left({ }^{\circ} \mathrm{C}\right)$; capacity (litres $/ \mathrm{ml}$ ) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels <br> $\star$ Compare and order lengths, mass, volume/capacity and record the results using >, < and = |
| Smaller <br> Steps <br> (WRM) |  |  |  | $\operatorname{sep} 1$ Oclock and holf post <br> $\operatorname{step} 2$ Quorter post and quorter to <br> $\sin 1$ Tell the time post the hour <br> $\operatorname{sep} 4$ Tell the time to the hour | $\frac{\stackrel{\rightharpoonup}{x}}{a}$ |  |  |


| RTP's | * 2AS-2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?" -Step 9-Find change <br> * 2AS-4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 twodigit numbers <br> - Step 8-Make a pound <br> - Step 9-Find change | * 2MD-1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2,5 and 10 multiplication tables <br> - Step 4-Introduce the multiplication symbol <br> - Step 5-Multiplication sentences <br> - Step 9-The 2 times-table <br> - Step 13-The 10 times-table <br> - Step 15 -The 5 times-table <br> - Step 17-The 5 and 10 times-tables <br> * 2MD-2 Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division) <br> - Step 2-Make equal groups <br> - Step 7-Make equal groups grouping <br> - Step 8-Make equal groups sharing <br> - Step 10-Divide by 2 <br> - Step 14-Divide by 10 <br> - Step 16 -Divide by 5 |  |  |  | * 2AS-4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers - Step 5-Four operations with lengths and heights | * 2MD-1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables <br> - Step 8-Four operations with volume and capacity |
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Year 2 Medium Term Plan

| Summer <br> Term | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Weeks 7-13 <br> My Money Maths |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Domain | Time | Shape | Position and Direction | Word Problems | Statistics | $\frac{\curvearrowleft}{6}$ | Consolidation of RTP's and Times Tables |
| NC Objective | $\star$ Compare and sequence intervals of time <br> $\star$ Tell and write the time to five minutes and draw the hands on a clock face to show these times <br> * Know the number of minutes in an hour and the number of hours in a day | Revision | * Order and arrange combinations of mathematical objects in patterns and sequences <br> $\star$ Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and threequarter turns (clockwise and anticlockwise) | Revision | 夫 Interpret and construct simple pictograms, tally charts, block diagrams and simple tables <br> * Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity <br> * Ask and answer questions about totalling and comparing categorical data |  | This time is also used to consolidate: <br> $\star$ RTP's that need revisiting <br> $\star$ Areas of concern through the PiXL analysis <br> $\star$ Times Tables |
| Smaller Steps (WRM) | Tes Tell he ime to 5 minutes <br> Mintes in on hour  <br> $==0$ Hours in o doy |  | $\infty=$ $0=$ $0=$ $0=$ |  | $0=$ $\Phi=$ $0=$ $0=$ $0=$ |  |  |
| RTP's | * 2MD-1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2,5 and 10 multiplication tables <br> - Step 5-Tell the time to 5 minutes <br> - Step 6Minutes in an hour |  |  |  |  |  |  |

