## Year 3 Maths Half Termly Planning




| Spring 1 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Counting <br> Count from 0 in multiples of 8. <br> Review counting in multiples of 2 and 4. Discuss the links - double 2 is 4 , double 4 is 8 . All multiples of 2, 4 and 8 are even. Use counting sticks and hundred squares. | Multiples of 5. <br> Count up and down, back and forwards in multiples of 5 . Identify that multiples of 5 end only in digits 0 and/or 5. Use counting sticks and hundred squares. | Compensate to subtract $35-18=?$ <br> Add two to 18 to make 20 (friendly number)... $35-20=15$ <br> Then add 2 back on... $15+2=17$ <br> Progress to apply the above skill to 3 digit numbers. | Review 'Adjusting to Subtract' mentally ( -9 and -11 to start with) from Autumn 1 and develop this skill to subtract by 12 and so on. | Recognising multiples of 4 <br> Multiples of 4 are even so always end with the digits $0,2,4,6$ or 8 . To find the answer to a $\times 4$ calculation, double the number twice. $8 \times 4=8 \times 2=16,16 \times 2=32$ |  | Review multiplying and dividing by 10 from Autumn 2 then move on to multiplying and dividing by 100 . |
|  | Measures (Length) <br> Measure, compare lengths add and subtract lengths (cm, $m m, m$ ). <br> Measure and compare lengths ( $\mathrm{cm}, \mathrm{mm}, \mathrm{m}$ ) in different contexts (including curved lines, measuring objects and children's bodies). | Addition <br> Add numbers with up to three digits, using formal written methods of columnar addition. | Subtraction <br> Subtract numbers with up to three dig columnar subtraction. | , using formal written methods of | Measures (Money) <br> Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. |  | Statistics <br> Interpret and present data using bar charts, pictograms and tables. |
|  | Solve worded problems applying all of the above. | Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <br> Estimate answer to a calculation and use the inverse operations to check answers. | Solve problems, including missing nu place value, and more complex additi <br> Estimate answer to a calculation and answers. | mber problems, using number facts, n and subtraction. <br> use the inverse operations to check | Apply the above skills in worded problems. <br> Become fluent in counting and recognising coins by adding and subtracting amounts, including mixed units, Read and say amounts of money confidently and use the symbols $£$ and p accurately, recording pounds and pence separately. Decimal recording of money is introduced formally in year 4 . |  | Solve one step and two step questions (for example, 'How many more? and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables. |

## Year 3 Maths Half Termly Planning

| $\begin{aligned} & \frac{y}{0} \\ & \frac{1}{5} \\ & x \end{aligned}$ | TTRS (x2,5,10 then 3,4,8) Counting sticks End of year target: recall multiplication and division facts for the 2, 5, 10, 3, 4 and 8 times tables. | TTRS ( $\mathrm{x} 2,5,10$ then $3,4,8$ ) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) <br> Counting sticks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| Spring 2 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 䔍 | Double numbers up to 1000 . <br> Double 15... <br> $10+5$ : double 10 is 20 , double 5 is 10 , so $10+20=30$. <br> Progress to apply the above skill to 3 digit numbers. | Halving numbers/recall known facts <br> Partition to halve. <br> Half of $1000=500$ <br> Half of $500=250$ <br> Half of $300=150$ <br> Half of $100=50$ <br> Half of $50=25$ | Dividing by 4. <br> Encourage children to halve the number and halve again when dividing by 4 . | Roman numerals (Leads on to Time in Summer 1). <br> Recognise the value of I-XII | TTRS <br> (x2,5,10 then <br> 3,4,8) <br> Counting <br> sticks |
| $\sum_{i=1}^{n}$ | Multiplication <br> Revisit 'Write and calculate mathematical statements for multiplication using the multiplication tables that they know (3, 4 and 8), including for TO $x O$, using mental methods from Autumn 2 and progress to formal written methods. | Division <br> Revisit 'Write and calculate mathematical statements for division using the multiplication tables that they know (3, 4 and 8), including for TO x $O$, using mental methods from Autumn 2 and progress to formal written methods |  | Fractions <br> Add and subtract fractions with the same denominator within one whole $(5 / 7+1 / 7=6 / 7)$. |  |
|  | Solve problems including missing number problems involving multiplication, including positive interger scaling problems and correspondence problems which $n$ objects are linked to mobjects. | Solve problems including missing number problems involving division, including positive interger scaling problems and correspondence problems which n objects are linked to m objects. |  | Continue to recognise fractions in the context of parts of a whole, numbers, measurements, a shape, and unit fractions as a division of a quantity. <br> Practise adding and subtracting fractions with the same denominator through a variety of increasingly complex problems to improve fluency. |  |
| $\begin{aligned} & \text { y } \\ & \text { O} \\ & \text { IN } \end{aligned}$ | TTRS (x2,5,10 then 3,4,8) <br> Counting sticks <br> End of year target: recall multiplication and division facts for the 2, 5, 10, 3, 4 and 8 times tables. | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks |  |

Mental Maths strategies should be kept on the boil throughout all units, remind children of them when you model concepts. Drip-feed teaching Time, use daily opportunities to teach/discuss it.

| Number and Place Value | Multiplication and Division | Addition and Subtraction | Fractions/Decimals | Geometry | Statistics | Measures |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Year 3 Maths Half Termly Planning

| Summer 1 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Recognising multiples of 3 <br> Any time we multiply by 3 , the digits in the answer will always add up to a multiple of $\mathbf{3}$. For example: $8 \times 3=24$, the 2 and 4 add up to 6 , which is a multiple of 3 . | Fractions <br> Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. Link $5 / 10$ with $1 / 2$, discuss why they represent the same value. <br> Model and count with counting sticks. | Review multiplying and dividing by 10 from Autumn 2 then move on to multiplying and dividing by 100 . | Multiples of 8 <br> To multiply by 8 , you can double the number 3 times: $8 \mathrm{x} 2=16$ $2 \times 2=4,4 \times 2=8,8 \times 2=16$ | Time <br> Know the number of seconds in a minute, and the number of days in each month, year and leap year. |  |
| $\sum_{i}^{n}$ | 2D Shape - Turns <br> Recognise angles as a property of a shape or a description of a turn. <br> Recognise that two right angles make a half turn, three make three quarters of a turn and 4 right angles make a full turn. | Fractions <br> Recognise and show, using diagrams, equivalent fractions with small denominators. | Measures (Volume/capacity) <br> Measure, compare add and subtract volume/capacity ( $1 / \mathrm{ml}$ ). | Measures (mass) <br> Measure, compare add and subtract mass ( $\mathrm{kg} / \mathrm{g}$ ) | Time <br> Tell and write the time from an analogue clock, including using Roman numerals from I to XII. |  |
|  | Identify whether an angle is greater than or less than a right angle. <br> Describe the properties of 2-D and 3-D shapes using accurate language, including lengths of lines and acute and obtuse for angles greater or lesser than a right angle. | Compare and order unit fractions, and fractions with the same denominators. | Use standard units of measurement with increasing accuracy, using their knowledge of the number system. | Use standard units of measurement with increasing accuracy, using their knowledge of the number system. | Compare durations of events (for example to calculate the time taken by particular events or tasks). <br> Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight |  |

## Year 3 Maths Half Termly Planning

| Summer 2 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Geometry (3D shapes) <br> Identify $2 D$ shape faces on $3 D$ shapes. | Review multiplying and dividing by 10 from Autumn 2 then move on to multiplying and dividing by 100 . | Partition to multiply. $13 \times 4=$ <br> Partition 13 into 10 and 3. <br> Multiply $10 \times 4=40$ <br> Multiply 3 by $4=12$ <br> So... $40+12=52$ | Partition do divide. <br> 56 divided by $4=$ <br> Partition 56 into 40 and 16 <br> 40 divided by $4=10$ <br> 16 divided by $4=4$ <br> So... $10+4=14$ | Revise mental maths skills taught this year in various contexts. |  |  |
| 总䨌 | Geometry (3D shapes) <br> Make 3D shapes using modelling materials. <br> Recognise 3D shapes in different orientations and describe them. <br> Describe the properties of 2-D and 3-D shapes using accurate language, including lengths of lines and acute and obtuse for angles greater or lesser than a right angle. |  |  | Fractions Review | Measures Review |  |  |
| $\begin{aligned} & \frac{y y y}{0} \\ & \frac{2}{5} \\ & \underset{x}{x} \end{aligned}$ | TTRS (x2,5,10 then 3,4,8) Counting sticks End of year target: recall multiplication and division facts for the 2, 5, 10, 3, 4 and 8 times tables. | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS <br> (x2,5,10 then <br> 3,4,8) <br> Counting sticks |  |
| $\begin{aligned} & \text { y } \\ & \text { O} \\ & \end{aligned}$ | TTRS (x2,5,10 then 3,4,8) Counting sticks End of year target: recall multiplication and division facts for the 2, 5, 10, 3, 4 and 8 times tables. | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks | TTRS (x2,5,10 then 3,4,8) Counting sticks |  |  |

## Year 3 Maths Half Termly Planning

