WRPS Maths Medium Term Planning: Autumn Term Year 5 Year 6


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| Week. | Mathematical aspect | Non-negotiable end points Year 5. | Non-negotiable end points Year 6 | Curriculum statements - Year 5. | Curriculum Statements. Year 6. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3. | Addition and Subtraction: Written methods. | Knows efficient written algorithms for addition and subtraction dependent on the numbers in the question. | Knows efficient written algorithms for addition and subtraction dependent on the numbers in the question. | - To solve problems involving addition, subtraction, multiplication and division. <br> -Add whole numbers and decimals using formal written methods (columnar addition). <br> - Subtract whole numbers and decimals using formal written methods (columnar subtraction). <br> - To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. | - To solve problems involving addition, subtraction, multiplication and division. <br> - Add whole numbers and decimals using formal written methods (columnar addition). <br> - Subtract whole numbers and decimals using formal written methods (columnar subtraction). <br> - To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. |
| Links to resources $\begin{array}{r} 3426 \\ +1715 \\ \hline 5141 \end{array}$ |  |  | $\begin{aligned} & 9 \mathrm{~kg} \\ & \frac{\mathrm{~kg}}{9 \mathrm{~kg}} \\ & \hline 9 \mathrm{~kg} \end{aligned}$ | $\begin{array}{r} 2^{1} 3^{1} \\ 52 \not A^{2} 4 \\ -\quad 1187 \\ \hline 51157 \\ \hline \end{array}$65,442 <br> $+26,894$ <br> 92,336 <br> $16,143,5 \% 10$ <br> 26,454 | $3,565+2,250=5,815$ <br> Use this calculation to decide if the following calculations are true or false. <br> True or False? $\begin{aligned} & 4,565+1,250=5,815 \\ & 5,815-2,250=3,565 \\ & 4,815-2,565=2,250 \\ & 3,595+2,220=5,845 \end{aligned}$ |
| 4. | Multiplication <br> written methods short and long, estimation and remainders | Knows the efficient written algorithms for long and short multiplication. | Knows the efficient written algorithms for long/short multiplication. | - To solve problems involving multiplication and division where larger numbers are used by decomposing them into factors. -To multiply and divide whole numbers and those involving decimals by 10,100 and 1000 . <br> - To multiply numbers up to 4 digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers. | - To multiply multi-digit numbers up to 4 digits by a one-digit whole number using the efficient written method of short multiplication. <br> - To multiply multi-digit numbers up to 4 digits by a two-digit whole number using the efficient written method of long multiplication. <br> - To solve problems involving addition, subtraction, multiplication and division. <br> - To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy. |
| Links to resources a $\begin{array}{r} 453 \\ \times \quad 6 \\ \hline 2718 \\ \hline 31 \end{array}$ | documents: $\begin{array}{r} 28 \\ \times \quad 27 \\ \hline 196 \\ 5 \\ 560 \\ \hline 1 \\ \hline 756 \end{array}$ | $\begin{array}{r} x \\ \hline 4 \\ 13 \\ \hline 17 \\ \hline \end{array}$ | $\begin{array}{r} 749 \\ 266 \\ \hline 494 \\ 480 \\ \hline 474 \\ \hline 47 \end{array}$ | $\begin{array}{r} 339 \\ \times \quad 26 \\ \hline 2034 \\ \hline 6380 \\ \hline 6888 \\ \hline 8814 \\ \hline 88808 \\ \hline \end{array}$ |  |


| Week. $\quad$Mathematical <br> aspect | Non-negotiable end points Year 5. | Non-negotiable end points Year 6 | Curriculum statements - Year 5. | Curriculum Statements. Year 6. |
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| 5. <br> Division: <br> written methods short and long, estimation and remainders | Knows the efficient written algorithms for long and short division. | Knows the efficient written algorithms for long/short division. | - To solve problems involving multiplication and division where larger numbers are used by decomposing them into factors. To multiply and divide whole numbers and those involving decimals by 10,100 and 1000 . <br> -To divide numbers up to 4 digits by a one-digit number using the efficient written method of short division and interpret remainders appropriately for the context. | - To divide numbers up to 4 digits by a one-digit whole number using the efficient written method of long division, and interpret remainders as whole number remainders, <br> - To divide numbers up to 4 digits by a two-digit whole number using the efficient written method of long division, and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context. <br> - To solve problems involving addition, subtraction, multiplication and division. <br> - To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy. |
| Links to resources and policy documents: | $\begin{array}{r} 289 \\ 12 \sqrt{3468} \\ 24 \\ \hline 106 \\ 96 \\ \hline 108 \\ 108 \\ \hline \end{array}$ | $\begin{array}{r} 255 \\ 36 \begin{array}{r} 9189 \\ 72 \\ 198 \\ 180 \\ 189 \\ 180 \\ \hline \end{array} \\ \hline \end{array}$ | $\begin{array}{r} 123 \\ 4492 \\ \hline \end{array}$ $\begin{array}{lr} 134 \mathrm{r} 6 & 943 \div 7=134 \text { and } 6 / 7 \mathrm{~s} \\ 7 \longdiv { 9 ^ { 2 } 4 ^ { 3 } 3 } & \\ \begin{array}{rl} 113 \mathrm{r} 2 & 906 \div 8 \end{array} \\ 8 \longdiv { 9 } \begin{array} { l }  { 9 0 ^ { 2 } 6 } \end{array} & \begin{aligned} & 113 \text { and } 2 / 8 \mathrm{~s} \\ &=113.25 \end{aligned} \end{array}$ | $\frac{1083.5}{7 \longdiv { 7 5 ^ { 8 } 8 ^ { 2 } 6 }}$ <br> Answer: 28 remainder 12 |
| 6. Geometry: <br> angles | Knows that angles are measured using a protractor. Knows right, acute, obtuse, straight and reflex angles. | Knows how unknown angles and lengths can be derived from known measurements. | -To know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles <br> - To draw given angles and measure them in degrees (o). <br> -To identify: <br> - angles at a point and one whole turn (total 360 ) <br> - angles at a point on a straight line and $1 / 2$ a turn (total 180ㅇ) <br> - other multiples of 90 . | - To recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. |
| Links to resources and policy documents: <br> Measure the angles shown on the protractors. |  |  | A right angle is $\qquad$ degrees. <br> Acute angles are $\qquad$ than a right angle. Obtuse angles are $\qquad$ than a right angle. <br> Label the angles. O for obtuse, A for acute and R for right angle. <br> b $\square$ $\square$ $\square$ | Estimate this angle <br> Draw an angle of $70^{\circ}$. |




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