



| Week. | Mathematical aspect | Non-negotiable end points Year 4. | Non-negotiable end points Year 5 | Curriculum | tements - Year 4. | Curriculum Statements. Year 5. |
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| Put these lengths of time in order starting with the longest time. <br> 105 minutes <br> 1 hour 51 minutes <br> 6360 seconds |  |  |  | Write the time <br> 75 minutes after $\qquad$ <br> 80 minutes before | I hour and 50 minutes after $5: 25$ $\qquad$ <br> I hour and 45 minutes before |  |
| 6. | Measurement: area and perimeter volume | Knows perimeter can be expressed algebraically as 2(a+ b) where $a$ and $b$ are the dimensions in the same unit. | Knows how to calculate the area from scale drawings using given measurements Knows that percentages, decimals and fractions are different ways of expressing proportions. | - To measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres To find the area of rectilinear shapes by counting squares. |  | - To measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. <br> - To calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm2) and square metres ( m 2 ) and estimate the area of irregular shapes. <br> - To estimate volume [for example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes)] and capacity [for example, using water]. |
| Volume $=$ length x wid <br> Volume $=12 \times 4 \times 3$ <br> $15 x$ <br> Area $=45 x^{2}$ <br> Perimeter $=2(15 x+3 x)$ | $x$ height <br> 44 <br> is the area and meter of the gle in terms of | 8 m <br> Area $=$ |  | Shade the grid to show a rectangle with the area of $6 \mathrm{~cm}^{2}$. <br> This rectangle has been ripped. <br> What is the smallest possible area of the original rectangle? |     <br>     <br>     <br>     | Use the words 'greater than' and 'less than' to compare the rectilinear shapes. <br> Complete the sentence stems using $<$ and $>$ $\qquad$ |
| 7. | Fractions: <br> Decimals and fractions in the context of measurements. | Knows that decimals and fractions are different ways of expressing numbers and proportions. |  | - To find the effect of divid 10 and 100 , identifying the units, tenths and hundredth <br> - To round decimals with whole number. | a one- or two-digit number by ue of the digits in the answer as decimal place to the nearest | - To use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. <br> - To solve problems involving number up to three decimal places; |




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| Links to resour | $\frac{12}{16}$ | licy documents: |  | arching |   | $\frac{2}{3}+\frac{1}{6}=$ $\square$ $\frac{1}{2}+\frac{1}{4}=$ $\square$ $\frac{1}{4}+\frac{3}{8}=$ $\square$ |
| 11. |  | Fractions Calculating \% | Knows the effect on a number when it is multiplied or divided by 10 or 100 . | Knows how to find 10\% and $1 \%$ of an amount using division by 10 and 100 . | - To find the effect of dividing a one- or two-digit number by 10 and 100 , identifying the value of the digits in the answer as ones, tenths and hundredths; <br> - To solve simple measure and money problems involving fractions and decimals to two decimal places. | - To recognise the per cent symbol (\%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100 , and as a decimal. <br> - To solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 . |
| Links to resour $\qquad$ <br> To find $1 \%$ of a number <br> To find $10 \%$ of a number <br> To find 5\% <br> To find $\mathbf{2 5 \%}$ of a number <br> To find $50 \%$ of a number <br> To find $20 \%, 30 \%, 40 \%$, <br> Becky shared a c She gave $40 \%$ to What percentage | s and <br>  <br> colate <br> a and <br> d she | licy documents: <br> by 100 <br> by 10 <br> then halve it <br> y 2 | $10 \%$ of these numbers. $\qquad$ b. 160 $\qquad$ <br> $1 \%$ of these numbers. $\qquad$ b. 6,800 $\qquad$ | . 50 $\qquad$ $\text { c. } 550$ $\qquad$ |  | Complete the sentence stem for each diagram. <br> There are $\qquad$ parts per hundred shaded. This is $\qquad$ \% <br> What are these decimals as a percentage? <br> What are they as a fraction? Can you simplify the fraction? |
| 12. |  | Statistics; Reading timetables line graphs | Knows how to use a greater range of scales in their representations. Knows the graphical representation of data | Knows how to read a timetable and complete missing information. | - To interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. <br> - To solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and simple line graphs | -To complete, read and interpret information in tables, including timetables <br> - To solve comparison, sum and difference problems using information presented in a line graph; |


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|  | to record change over time. |  |  |  |
| Links to resources and policy documents: |  |  | Harry travels on a train to work for the day, and then returns home. How many hours did Harry spend travelling? <br> Harry's Train Journey |  <br> What was the highest temperature? When did it occur? What was the lowest temperature? When did it occur? |

