| Week. | Mathematical aspect | Non-negotiable end points Year 2. | Non-negotiable end points Year 3 | Curriculum Statements. Year 2. | Curriculum Statements. Year 3. |
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| 1. | Number and place value: Read, write, and order and round twoand three- digit numbers | Knows that numbers can be partitioned and rearranged. | Knows the standard form for writing numbers up to 1000. Knows how to write numbers in words. | - To count in steps of 2, 3, and 5 from 0 , and count in tens from any number, forward or backward. <br> - To recognise the place value of each digit in a two-digit number (tens, ones). <br> - To identify, represent and estimate numbers using different representations, including the number line. <br> - To compare and order numbers from 0 up to 100; use <, > and = signs. <br> - To read and write numbers to at least 100 in numerals and in words. <br> - To use place value and number facts to solve problems. | - To recognise the place value of each digit in a three-digit number (hundreds, tens, ones). <br> - To compare and order numbers up to 1000. <br> - To read and write numbers up to 1000 in numerals and in words. |
| $400+90+2$ <br> 492 <br> Four hundred and nine $500+40+7$ <br> 547 <br> Five hundred and forty $200+4$ <br> 204 <br> Two hundred and four | ety two <br> y seven <br> $52=5$ tens and 2 <br> Rearrange 52 in <br> ways. |  | 67 is 60 tens and 7 <br> ones. 7 <br> 15 that true? |  | Write the numbers in  <br> standard form Which of these are not correct? <br> $300+60+3$ 457 <br> $400+6$ Four hundred and seventy five <br> $900+30+1$ $600+8$ <br> Six hundred and eighty <br>  719 <br> Now write the numbers <br> in words. Seven hundred and nineteen |
| 2. | Addition and subtraction: using recall of addition and subtraction facts and mental/written calculation strategies | Knows number bonds to and within 20 and to 100. <br> Knows efficient strategies for adding and subtracting for up to two 2 digit numbers mentally and with recording appropriate to the strategy chosen. | Knows the compact algorithms for addition and subtraction including regrouping and exchanging. | To solve problems with addition and subtraction: <br> - Applying their increasing knowledge of mental and written methods. <br> - To recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100. <br> - To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers. <br> - To show that addition can be done in any order (commutative) and subtraction cannot. <br> - To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. | $\bullet$ To add and subtract numbers mentally, including: <br> - a three-digit number and ones <br> - a three-digit number and tens <br> - a three-digit number and hundreds. <br> - To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <br> - To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction. <br> - To estimate the answer to a calculation and use inverse operations to check answers. |

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| 9. | Geometry: <br> Position, direction and right angles | Knows how to describe position and movement using right angles for quarter turns. | Knows how to recognise right angles as $90^{\circ}$ turns, clockwise, anticlockwise. | To use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) and movement in a straight line. | To identify horizontal, vertical, perpendicular and parallel lines in relation to other lines. |
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|  |  |  | The arrow has moved half turn clockwise, two right angles. <br> This shape has moved three quarter turn clockwise, three right angles. $\qquad$ |  | 15 Amir is tacing $A$ <br> Susie is facing D . <br> She turns anti-clockwise through one right-angle. <br> Which letter is Susie facing now? <br> Which leter is Anir ticing now? $\square$ |
| 10. | Calculation: using mental \& written calculation strategies Problem solving in all four operations. | Knows the operation to use and chooses the efficient method. Knows facts to 100 using multiples of 10 . Knows table facts for 2,5 and 10. | Knows how to calculate with columnar methods regrouping the tens and exchanging in subtraction. Knows how to partition numbers when multiplying in a grid/short method. | - To recognise the place value of each digit in a 2-digit number (tens, ones). <br> - To use place value and number facts to solve problems. <br> - Applying their increasing knowledge of mental and written methods. <br> Solve one/two-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems Solve one/two-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. | To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <br> - To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which $n$ objects are connected to $m$ objects. |
| Ben and Sita collect animal stickers. <br> They have the same <br> amount. <br> Ben gives away 15 stickers. <br> Sita gives away 32 stickers. <br> How many more stickers <br> does Ben have than Sita <br> now? |  | garden centre sells 8 packs of gar ack has 32 metres of fencing. How Id in total? $\begin{aligned} & \times 8=240 \\ & 2 \times 8=16 \\ & 2 \times 8=256 \end{aligned}$ <br> m | n fencing in one day. Each many metre lengths were | Sita buys these two items for 30p. $\square$ What is the cost of a <br> Ben buys these three $\square$ ruler? items for 42p. $\square$ |  |
| 11. | Measurement: time 12-hour, 24-hour clocks. <br> Money Y2 | Knows the number of minutes in an hour and hours in a day. Knows how to pay for items with the exact money or with change to be given. | Knows the time in 12 -hour and 24 -hour representations. <br> Knows the number of seconds in a minute and the number of days in each month, year and leap year. | To compare and sequence intervals of time. <br> - To tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. <br> - To recognise and use the symbols for pounds and pence; combine amounts to make a particular value <br> - To find different combinations of coins that equal the same amounts of money | - To tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks. <br> - To estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon and midnight. <br> - To know the number of seconds in a minute and the number of days in each month, year and leap year. |

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|  |  |  | - To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. | - To compare durations of events, for example to calculate the time taken by particular events or tasks |
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|  |  |  |  | Show these times on an analogue clock. Write them in am or pm. <br> Put these times in order from midnight. <br> 17:45 <br> 03: 18 <br> 23:07 <br> 06:24 |
| 12. | Statistics: solving problems by asking and answering simple questions | Knows how data is Knows how to present data <br> represented and read. in many contexts. <br> Knows how to  <br> interpret data. Knows how to interpret <br> and analyse data.  | To interpret and construct simple pictograms, tally charts, block diagrams and simple tables. <br> To ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. <br> To ask and answer questions about totalling and compare categorical data. | To interpret and present data using bar charts, pictograms and tables. <br> - To solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables. |
|  |  |  | Favourite sandwich Children in $\mathbf{Y}$ 2 <br> Cheese II <br> Ham IIII <br> Chicken III <br> Peanut butter UI <br> There are still 5 children to add to the tally in Y2 2 more like chicken <br> 1 more each for the other sandwiches. |  |

