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| Y1 | Methods I should teach: <br> Combining groups to find the total. Counting on method. <br> What I should use: <br> Concrete objects. <br> Models \& images, including the <br> Part/part/whole model and the <br> Bar model. <br> Deines. <br> Number lines/ 100 squares. <br> Blank number lines. <br> Numicon. <br> Methods I should teach: <br> Taking away from a group. Counting on/back to find the difference. <br> What I should use: <br> Concrete objects: counters, cubes. <br> Models \& images. <br> Number lines/100 square. <br> Blank number lines. | Methods I should teach: <br> Making lots of using concrete objects and pictorial representations, including arrays. <br> What I should use: <br> Concrete objects. <br> Models and images. <br> Bead strings. <br> Numicon. <br> 100 square/Number lines. <br> Blank number lines. | Methods I should teach: <br> Sharing method using concrete objects and pictorial representations, including arrays. <br> What I should use: <br> Concrete objects. <br> Models and images. |
|  | Skills the children will need for addition and subtraction in Y1: <br> Number bonds to 10/20. <br> Counting on and back in 1 s . <br> Place value to 20. <br> Addition vocab: add, more, plus, increase, altogether, total. <br> Subtraction vocab: subtract, less, fewer, take away, minus, difference, reduce. <br> Be able to put the biggest number first. <br> Understanding that addition is commutative and subtraction is not. | Skills the children will need for mu Doubles and halves. Counting in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s . Multiplication vocab: times, multiply, Division vocab: divide, share, group. Understanding of the commutative p | iplication and division in Y1: <br> ots of, groups of. <br> inciple. |


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| Y2 | Methods I should teach: <br> Partitioning method. <br> Exchanging using Deines. <br> Counting on method. <br> What I should use: <br> Deines, <br> Models and Images, including pictorial representations of Deines horizontally. <br> Blank number lines, 100 squares. <br> Methods I should teach: Taking away method. Exchanging using Deines. Counting on/back to find the difference. <br> What I should use: Deines, Models and Images Deines horizontally. Blank number lines, 100 squares. | Methods I should teach: <br> Repeat addition and extend use of arrays. <br> What I should use: <br> Concrete objects. <br> Models and images. <br> Numicon. <br> Blank number lines. | Methods I should teach: Sharing. <br> Grouping including small remainders. (1 left over) <br> What I should use: Concrete objects. Models and images. Numicon. |
|  | Skills the children will need for addition and subtraction in Y2: <br> Number bonds to 10/20/100. <br> A sense of number for $10 / 20$ that can be applied to larger numbers. Understanding of place value. <br> Counting on and back in 1s, 10s. <br> Confidently partition TOs and understanding that 10 ones $=1$ ten. Add ones first. <br> Addition vocab: add, more, plus, increase, altogether, total. <br> Subtraction vocab: subtract, less, fewer, take away, minus, difference, reduce. | Skills the children will need for mu Doubles and halves and near doubl Knowledge of times tables previous Counting forwards and backwards in Multiplication vocab: times, multiply, Division vocab: divide, share, group | tiplication and division in Y2: <br> taught. <br> $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s . <br> ots of, groups of. |


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| Y3 | Methods I should teach: <br> Partitioning method. <br> Extended and compact methods for columnar addition of TOs leading to HTOs and decimals for money. <br> Counting on method. <br> What I should use: <br> Deines, <br> Models and images, including pictorial representation of Deines vertically. <br> Blank number lines. <br> Methods I should teach: <br> Decomposition through columnar subtraction of TOs leading to HTOs and decimals for money. Counting on/back to find the difference. <br> What I should use: <br> Deines, <br> Models and images, including pictorial representation of Deines vertically. <br> Blank number lines. | Methods I should teach: <br> Repeat addition. Upscaling of multiplication facts. Grid method. <br> What I should use: <br> Concrete objects. <br> Models and images. <br> Blank number lines. <br> Multiplication squares. | Methods I should teach: <br> Sharing. <br> Grouping. <br> Repeat subtraction for 2 digits. <br> What I should use: <br> Concrete objects. <br> Models and images. <br> Blank number lines. |
|  | Skills the children will need for addition and subtraction in Y3: <br> Number bonds to 100. <br> Apply knowledge of number bonds to larger numbers. <br> Partitioning of HTOs. <br> Counting on in 1s, 10s \& 100s. <br> Understanding of place value to 1000. <br> Counting on/back in 1s, 10s \& 100s. <br> Understanding of inverse operations. | Skills the children will need for Knowledge of multiplication table Counting forwards and backward extending to multiples of 10/100. Links to learning of fractions. | iplication and division in Y3: $2,3,4,5,8 \& 10 .$ <br> ppropriate times tables and |


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| Y4 | Methods I should teach: <br> Formal written method-Compact columnar addition for ThHTOs and decimals up to two places. <br> What I should use: Models and images, including pictorial representation of Deines vertically. | Methods I should teach: <br> Decomposition through columnar subtraction for ThHTOs and decimals up to two places. <br> What I should use: <br> Models and images, including pictorial representation of Deines vertically. | Methods I should teach: <br> Multiplication of 2 and 3 digit numbers using the grid method. Short multiplication. <br> What I should use: <br> Models and images. <br> Formal written methods. | Methods I should teach: <br> Repeat subtraction. Chunking for 3 digits. Short division method. <br> What I should use: <br> Models and images. <br> Formal written methods. |
|  | Skills the children will need for addition and subtraction in Y4: <br> Understanding of place value to 10,000 . <br> Partitioning of ThHTOs. <br> Understanding of exchanging. <br> Knowledge of number bonds. <br> Understanding of decimals and number bonds for money. <br> Counting on back in $1 \mathrm{~s}, 10 \mathrm{~s}, 100 \mathrm{~s}, 1000$ s |  | Skills the children will need for multiplication and division in Y 4 : <br> All times tables up to $12 \times 12$. <br> Counting in appropriate times tables and extending to multiples of 10/100/1000 plus decimals including tenths and hundredths. <br> Explore patterns between multiples and tables facts. <br> $X$ and $\div 10 / 100 / 1000$ linked to units of measure. <br> Links to learning of fractions. |  |


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| Y5 | Methods I should teach: <br> Formal written method-Compact columnar addition for more than 4 digits and 2 decimal places. <br> What I should use: <br> Formal written method. | Methods I should teach: <br> Decomposition through columnar subtraction for more than 4 digits and decimals up to two places. <br> What I should use: <br> Formal written method. | Methods I should teach: <br> Grid method. <br> Short multiplication. <br> Long multiplication. <br> What I should use: <br> Formal written method. | Methods I should teach: <br> Chunking. <br> Short division method for 4 digits. <br> Long division method for 4 digits. <br> What I should use: <br> Formal written method. |
|  | Skills the children will need for addition and subtraction in Y 5 : <br> Understanding of place value beyond 10,000. <br> Partitioning of 4 digit numbers +. <br> Understanding of decimals and number bonds for money and measures. <br> Consolidation of number bonds for application. <br> Counting on back in $1 \mathrm{~s}, 10 \mathrm{~s}, 100 \mathrm{~s}$, 1000s, 10000 s . |  | Skills the children will need for multiplication and division in Y5: <br> All times tables up to $12 \times 12$ <br> 10/100/1000 plus decimals including tenths and hundredths. <br> Explore patterns between multiples and tables facts. <br> Links to learning of fractions. |  |


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| Y6 | Methods I should teach: <br> Formal written method-Compact columnar addition for more than 4 digits and 3 decimal places. <br> What I should use: <br> Formal written method. | Methods I should teach: <br> Decomposition through columnar subtraction for more than 4 digits and decimals up to three places. <br> What I should use: <br> Formal written method. | Methods I should teach: <br> Grid method. <br> Short multiplication. <br> Long multiplication. <br> What I should use: <br> Formal written method. | Methods I should teach: <br> Short division method for 4 digits $+$ Long division method for 4 digits + <br> What I should use: <br> Formal written method. |
|  | Skills the children will need for addition and subtraction in Y 6 : <br> Understanding of place value beyond 10,000. <br> Partitioning of 4 digit numbers +. <br> Understanding of decimals and number bonds for money and measures. <br> Consolidation of number bonds for application. <br> Counting on back in $1 \mathrm{~s}, 10 \mathrm{~s}, 100 \mathrm{~s}, 1000 \mathrm{~s}$, 10000 s etc. |  | Skills the children will need for multiplication and division in Y6: All times tables up to $12 \times 12$ <br> 10/100/1000 plus decimals including tenths and hundredths. <br> Explore patterns between multiples and tables facts. <br> Links to learning of fractions. |  |

