## Addition KS2



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| Essential <br> knowledge | Add single digit bridging through <br> boundaries | Add multiples of 10,100 | Fluency of 2 digit + 2 digit | Add multiples of 10, 100 and 1000 |
| :--- | :---: | :---: | :---: | :---: |
|  | Partition second number to add | Pairs of 100 (complements of <br> $100)$ | Partition second number to add | Decimal pairs of 10 and 1 |
|  | Use near doubles to add | Add near multiples of 10 and <br> 100 by rounding and <br> adjusting | Use near doubles to add | Adjust both numbers before |
| adding |  |  |  |  |


| Year | 5 |  |  | 6 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Developing Conceptual/ Procedural Understanding | Columnar addition Include calculations involving more than 2 numbers and carrying figures $>1$. $\begin{array}{r} 25567 \\ 16397 \\ +15984 \\ \hline 57948 \\ \hline 1121 \end{array}$ <br> Include calculations with 'empty columns'. $124.9+7.25$ $\begin{array}{r} 124.90 \\ +\quad 7.25 \\ \hline 132.25 \\ \hline 11 \end{array}$ | Representing problems <br> If 2541 is the answer, what's the question? - Can you create three addition calculations? - Can you create three subtraction calculations? - Did you use a strategy? |  | Columnar addition <br> Include calculations with up to 3 'empty columns'. <br> 128.7 + 3.014 $\begin{array}{r} 128.700 \\ +3.014 \\ \hline 131.714 \\ \hline 1 \end{array}$ | Representing problems 7208 females attended a concert as well as 8963 males. There were originally 20000 seats on sale. How many empty seats were there at the concert? |  |
| Known facts | Derive and use addition and subtraction facts to 10 and 1, e.g. 3.3+ 6.7 $=10$ and so $0.33+0.67=1$. |  |  | All the KS2 required facts |  |  |
| Essential knowledge | Fluency of 2 digit +2 digit including with decimals |  | Add multiples of 10,100 , 1000 and tenths | Fluency of 2 digit +2 digit including with decimals |  | Add multiples of 10,100 , 1000, tenths and hundredths |
|  | Partition second number to add |  | Use number facts, bridging and place value | Partition second number to add |  | Use number facts, bridging and place value |
|  | Adjust numbers to add |  | Partition and recombine | Adjust numbers to add |  | Partition and recombine |

