| Year 5 |  |  |  |
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|  | Block 1 | Block 2 | Block 3 |
| Calculation content | ADDITION AND SUBTRACTION (UNIT 1) <br> - Facts for one and ten with decimal numbers to one decimal place <br> - Complements for one thousand and related facts <br> - Mental calculation <br> - Making next ten/previous ten <br> - Near doubles <br> - Calculation strategies <br> - Left to right addition <br> - Number line methods <br> - Partitioning the minuend <br> - Add numbers with more than four digits (with exchanging) <br> - Subtract numbers with more than four digits (with exchanging) | MONEY AND DECIMALS (UNIT 1) n/a <br> ADDITION AND SUBTRACTION (UNIT 2) <br> - Addition and subtraction with decimal numbers to two decimal places (facts for one and related facts) <br> - Strategies for adding lots of numbers <br> - Methods for addition <br> - Making the next hundred <br> - Near doubles <br> - Methods for subtraction <br> - Making the previous thousand <br> - Counting on <br> - Compensation <br> - Partitioning the minuend <br> FRACTIONS (UNIT 2) <br> - Addition of related fractions <br> - Subtraction of related fractions | CALCULATION UNIT <br> - Methods for addition <br> - Partitioning both addends <br> - Compensation <br> - Column method <br> - Methods for subtraction <br> - Making the previous hundred <br> - Counting on <br> - Partitioning the subtrahend <br> - Column method <br> MONEY (UNIT 2) <br> - Calculating amounts of money <br> - Adding decimal numbers <br> - Subtracting decimal numbers |


| Year 5 |  |  | Block 1 |
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| Year 5 |  |  |  |
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|  | Block 1 | Block 2 | Block 3 |
| Strategies/ methods | Mental calculation <br> - Making next ten/previous ten <br> - Near doubles <br> Children's knowledge of the making the next/previous ten is applied to calculations such as $11,126+6=11,126+4+2$ <br> They use making the next thousand and near doubles to solve calculations like $600+700$, eg: $\begin{aligned} & 600+700=600+400+300 \\ & 600+700=600+600+100 \end{aligned}$ <br> Calculation strategies <br> - Left to right addition <br> - Number line methods <br> - Partitioning the minuend <br> Children revise the fact that when we calculate with column methods we work from the smallest units to the largest; when we calculate mentally we tend to work with the largest parts first. <br> Empty number lines are used to support consolidation of adding by partitioning the second addend, eg: $\begin{aligned} & 2,335+1,226= \\ & 2,335+1,000+200+20+6 \end{aligned}$ | Methods for addition <br> - Making the next hundred <br> - Near doubles <br> Children's knowledge of the making <br> the next hundred is applied to <br> calculations such as $2,700+800=2,700+300+500$ <br> They use near doubles to solve calculations like $6.3+6.5$, eg: $6.3+6.3+0.2$ <br> Methods for subtraction <br> - Making the previous thousand <br> - Counting on <br> - Compensation <br> - Partitioning the minuend <br> Children are now very familiar with the methods above. They use them to solve calculations like: $2,500-800=2,500-500-300$ <br> (making previous thousand); <br> 25,102-875 (counting on); <br> $8,500-700=8,500-1,000+300$ <br> (compensation); <br> $5.26-1.75=2-1.75+3.26$ <br> (partitioning the minuend). | Calculating amounts of money <br> Children continue to practise calculating with money, supported by representations of coins. <br> Adding decimal numbers <br> Children add two decimal numbers with up to two decimal places. This includes adding numbers with different numbers of decimal places, eg: <br> $25.76+2.9$. <br> The column method is the core strategy used; other methods are also encouraged. <br> Subtracting decimal numbers Children subtract two decimal numbers with up to two decimal places. This includes subtracting numbers with different numbers of decimal places, eg: $25.06+4.9$ <br> Counting on using an empty number line is the core strategy used; other methods are also encouraged. |


| Year 5 |  |  |  |
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|  | Block 1 | Block 2 | Block 3 |
| Strategies/ methods | Work on subtraction also involves empty number lines, for counting on, and revisits the strategy of partitioning the minuend. <br> Add numbers with more than four digits (with exchanging) Column addition is now extended to numbers with more than four digits. Teaching revisits using compensation alongside the column method so children can evaluate the relative merits of each. <br> Subtract numbers with more than four digits (with exchanging) Column subtraction is extended to numbers with up to five digits. Other methods are encountered (partitioning the minuend) and children are encouraged to reflect on the appropriate method for a given calculation. | Addition of related fractions <br> Children learn that when the denominators are not the same, they need to be made the same before adding the fractions. They then use learning from Year 4 (when the denominators are the same, we add the numerators). Visual representations also support the making the next whole method, eg: $\begin{aligned} & 1 \frac{9}{10}+\frac{4}{5}=1 \frac{9}{10}+\frac{8}{10}= \\ & 1 \frac{9}{10}+\frac{1}{10}+\frac{7}{10}=2 \frac{7}{10} \end{aligned}$ <br> Subtraction of related fractions Methods mirror the methods used for addition: <br> converting to improper fractions and subtracting; making the previous one. |  |

