**Mathematics in Year 6**

* Use negative numbers in context and calculate intervals across zero.
* Compare and order numbers up to 10,000,000.
* Identify common factors, common multiples and prime numbers.
* Round any whole number to a required degree of accuracy.
* Identify the value of each digit to 3 decimal places.
* Use knowledge of order of operations to carry out calculations involving four operations.
* Multiply and divide - 4-digit by 2-digit
* Add and subtract fractions with different denominators and mixed numbers.
* Multiply simple pairs of proper fractions, writing the answer in the simplest form.
* Divide proper fractions by whole numbers.
* Calculate % of whole number.

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| Y6 Addition | Y6 Subtraction |
| * Add several numbers of increasing complexity using columnar addition.

 | * Continue with compact columnar subtraction, including subtraction of decimals.

* Use estimation to check answers to calculations and to determine, in the context of a problem, levels of accuracy.
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| Y6 Multiplication | Y6 Division |
| • Recall and use multiplication tables up to 12x12  (Including multiplying by 0 and 1).* Continue to practise short multiplication.
* Continue to practise long multiplication.

* Multiply decimals using the grid method and progressing on to short multiplication.
* Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
 | * Consolidate short division.
* Children should be able to interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context.
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* Introduce long division.

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