**Mathematics in Year 5**

* Count forwards and backward with positive and negative numbers through zero.
* Count forwards/backwards in steps of powers of 10 for any given number up to 1,000,000.
* Compare and order numbers up to 1,000,000. Compare and order numbers with 3 decimal places.
* Read Roman numerals to 1,000.
* Identify all multiples and factors, including finding all factor pairs. Use known tables to derive other number facts.
* Recall prime numbers up to 19. Recognise and use square numbers and cube numbers.
* Recognise place value of any number up to 1,000,000.
* Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 or 100,000.
* Round decimals with 2 decimal places to nearest whole number and 1 decimal place.
* Add and subtract numbers with more than 4-digits using formal written method.
* Use rounding to check answers.
* Multiply and divide 4-digits by 1-digit/ 2-digit. Multiply & divide whole numbers & decimals by 10, 100 and 1,000
* Recognise and use thousandths.
* Recognise mixed numbers and improper fractions and convert from one to another.
* Multiply proper fractions and mixed numbers by whole numbers. Identify and write equivalent fractions.
* Solve time problems using timetables and converting between different units of time.

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| Y5 Addition | Y5 Subtraction |
| * Continue to use columnar addition, adding numbers with more than 4 digits.

 3 2 8 7 9+ 3 5 9 8 7  6 8 8 6 6 * Addition of money and decimals.

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

 * Use rounding to check answers to calculations and to determine, in the context of a problem, levels of accuracy.
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| Y5 Multiplication | Y5 Division |
| * Recall and use multiplication tables up to 12x12

 (Including multiplying by 0 and 1).* Continue to practise short multiplication.
* Use Grid Method to introduce long multiplication.

   | * Consolidate the use of the formal written method of short division.

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