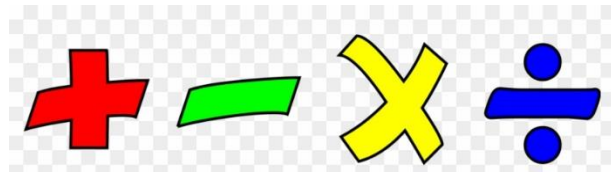


## Year 5 Maths Curriculum

### Autumn



#### Place Value

- Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.
- Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.
- Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
- Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.
- Solve number problems and practical problems that involve all of the above.
- Read roman numerals to 1000 (M) and recognise years written in roman numerals.

#### Addition and Subtraction

- Add and subtract whole numbers with more than 4 digits.
- Add and subtract whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction).
- Add and subtract numbers mentally with increasingly large numbers (eg:  $12,462 - 2300 = ?$ )
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
- Solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why.

#### Multiplication and Division

- Identify multiples and factors, including finding all factor pairs of a number,
- Identify common factors of 2 numbers
- Know and use the vocabulary of prime numbers, prime factors and composite (non prime numbers).
- Establish whether a number up to 100 is prime and recall prime numbers up to 19.
- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.
- Recognise and use square numbers and cubed numbers, and the notation for squared ( $^2$ ) and cubed ( $^3$ ).
- Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.

#### Statistics

- Solve comparison, sum and difference problems using information presented in a line graph.
- Complete, read and interpret information in tables including timetables.

#### Measurement (Perimeter and Area)

- Measure and calculate the perimeter of composite rectilinear shapes in cm and m.
- Calculate and compare the area of rectangles (including squares) and including using standard units, square cm and square metres.
- Estimate the area of irregular shapes.

#### Reasoning involving all of the above