## Keywords: Autumn 2

## Year 7 Maths Class 9-7, 9-6

DOWNHAM MARKET
ACADEMY

## Topics: Expressions, Fractions and Sequences and Graphs.

We are going to learn what the algebra is and how to find unknown numbers. Also, we will use four operations to calculate with fractions. Lastly, we will explore amazing world of different patterns and sequences.

| Keyword | Definition |
| :--- | :--- |
| Algebraic notation | $\begin{array}{l}\text { In algebra we use different notations to } \\ \text { mark the specific calculations. }\end{array}$ |
| Substitution | $\begin{array}{l}\text { Swapping unknown letters with exact } \\ \text { values. }\end{array}$ |
| Collecting like terms | $\begin{array}{l}\text { Combine the like terms by adding or } \\ \text { subtracting. }\end{array}$ |
| Order of operation | $\begin{array}{l}\text { BIDMAS (Brackets, Indices, division, } \\ \text { Multiplication, Addition and subtractions) }\end{array}$ |
| Expanding brackets | $\begin{array}{l}\text { In order to expand single brackets: } \\ \text { 1) Multiply the term outside of the } \\ \text { bracket by the first term inside the } \\ \text { bracket } \\ \text { 2) Multiply the term outside the bracket } \\ \text { by the second term inside the } \\ \text { bracket. }\end{array}$ |
| Factorising expressions | $\begin{array}{l}\text { In order to factorise an algebraic } \\ \text { expression into a single bracket: } \\ \text { 1) Find the highest common factor of } \\ \text { each of the terms in the expression. }\end{array}$ |
| 2) Write the highest common factor |  |
| (HFF) at the front of a single bracket |  |
| 3) Fill in each term in the bracket by |  |
| multiplying out. |  |$\}$

