** Mathematics Faculty**

 **Year 8 Autumn Term 1 – Theta Scheme**

 **Unit 2 Overview – Manipulating Expressions**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Manipulating Expressions** | I can understand and use algebraic notation. |  |  |  |
| I can simplify algebraic expressions. |  |  |  |
| I can expand a single bracket. |  |  |  |
| I can substitute positive and negative integers into expressions and formulae. |  |  |  |
| I can construct simple expressions and formulae. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Interpreting and using algebraic notation (CM clip 19) | Formative assessment strategies e.g. MWBs, whole class questioning, Diagnostic Questions, SLOP time with self-assessment, Live Marking etc.Assessment is also supported with our use of ILOs, set through Century Learning and Corbettmaths.Finally, units are assessed through skills checks and half termly assessments, as part of our Assessment Calendar in Mathematics. | notation, term, expression, coefficient, variable  |
| **2** | Collecting like terms involving different lettered and numerical terms (CM clip 9) | term, like term, expression, simplify, coefficient, positive, negative, add, subtract |
| **3** | Simplifying expressions by multiplying and dividing terms (CM clips 11 & 18) | term, expression, simplify, multiply, divide |
| **4** | **Expanding a single bracket** (CM clip 13) | term, expression, bracket, expand, multiply |
| **5** | **Substituting positive** and negative **integers into expressions** (CM clip 20) | term, expression, substitute, positive, negative |
| **6** | Substituting into simple algebraic formulae (CM clip 20) | formula, substitute, positive, negative |
| **7** | Constructing simple expressions and formulae (CM clip 16) | notation, term, expression, formula, simplify, operation |