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**Mathematics Faculty**

**Year 11 Foundation - Autumn Term 2**

**Unit 5 Overview – Expressions and Equations**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Expressions and Equations** | I can rearrange formulae to change the subject. |  |  |  |
| I can solve simultaneous equations. |  |  |  |
| I can set up and then solve simultaneous equations. |  |  |  |
| I can solve quadratic equations. |  |  |  |
| I can use identities. |  |  |  |
| I can show algebraic expressions are equivalent. |  |  |  |
| I can use algebra to verify a statement. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Rearranging formulae to change the subject (CM clip 7)** | 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, Corbettmaths, Dr Frost Maths and Justmaths.  Finally, units are assessed through staples challenges and half termly assessments, as part of our Assessment Calendar in Mathematics. | formula, subject, rearrange, inverse |
| **2** | **Solving simultaneous equations by eliminating variables (CM clip 295)** | simultaneous equation, solve, value, eliminate |
| **3** | Solving simultaneous equations by multiplying one equation first (CM clip 295) | simultaneous equation, solve, value, eliminate, multiply |
| **4** | Solving simultaneous equations by multiplying both equations first (CM clip 295) | simultaneous equation, solve, value, eliminate, multiply |
| **5** | Constructing and solving simultaneous equations (CM clip 295) | simultaneous equation, solve, value, eliminate, multiply, construct |
| **6** | **Solving quadratic equations by factorising (CM clip 266)** | quadratic, equation, factorise, sum, product, solve |
| **7** | Recognising and using identities. Showing algebraic expressions are equivalent. Using algebraic expressions to verify a statement. | identity, equation, expression, coefficient, expand, equate, equivalent, verify |