** Mathematics Faculty**

**Unit 6 Overview**

**Equations and Sequences**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Equations and Sequences** | I can solve two-step equations |  |  |  |
| I can solve equations involving a bracket |  |  |  |
| I can solve equations with square and cubic unknowns |  |  |  |
| I can generate and describe linear and pattern sequences |  |  |  |
| I can recognise and continue special sequences e.g. squares, triangular, Fibonacci, geometric |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Solving two-step equations (MW clip A12 and CM clip 110) | 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, which alternate between Basic Skills Checks one week and then a more individual ILO the following set through Mathswatch and Corbettmaths (see learning focus).  Finally every unit is assessed half termly as part of our Assessment Calendar in Mathematics. | equation, inverse, balance, solve, linear, coefficient |
| **2** | Solving equations involving a bracket (MW clip A19a and CM clip 110) | equation, inverse, balance, bracket, expand, solve, linear, coefficient |
| **3** | Solving equations with square and cubic unknowns | equation, inverse, solve,  coefficient, square, cube |
| **4** | Generating and describing linear sequences using a term-to-term rule and finding missing terms of a linear sequence (MW clip A11a and CM clips 286 & 287) | term, generate, describe, sequence, linear, rule |
| **5** | Generating and describing pattern sequences (CM clip 290) | term, generate, describe, sequence, pattern, rule |
| **6** | Recognising and continuing special sequences e.g. square, triangular, Fibonacci, geometric (MW clip A22 and CM clips 226, 229 & 278a) | term, generate, describe, sequence, rule, square, triangular, Fibonacci, geometric |