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**Mathematics Faculty**

**Unit 6 Overview**

**Equations and Sequences**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Equations and Sequences** | I can construct and use function machines |  |  |  |
| I can construct equations |  |  |  |
| I can solve equations |  |  |  |
| I can generate terms and describe linear sequences |  |  |  |
| I can recognise and continue special sequences |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Constructing and using function machines, involving one and two functions (CM clip 386) | 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. | function, construct, input, output, add, subtract, multiply, divide |
| **2** | Constructing simple equations (MW clip A17 and CM clip 115) | equation, construct, term |
| **3** | Solving one-step equations CM clip 110) | equation, solve, unknown, value, add, subtract, multiply, divide, balance, inverse |
| **4** | Solving two-step equations (MW clip A17 and CM clip 110) | equation, solve, unknown, value, add, subtract, multiply, divide, balance, inverse |
| **5** | Finding missing terms of a sequence. Generating and describing linear sequences. (MW clip A11a and CM clips 286 & 287) | sequence, linear, term, difference, generate, describe, rule |
| **6** | Recognising and continuing special sequences such as square, triangular and Fibonacci numbers (MW A22 and CM clips 226, 229 & 287a) | sequence, term, difference, generate, describe, square, triangular, Fibonacci |