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**Mathematics Faculty**

**Year 8 Spring Term 1 – Delta Scheme**

**Unit 6 Overview - Equations & Sequences**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Equations & Sequences** | I can solve equations involving a bracket. |  |  |  |
| I can solve equations with unknowns on both sides. |  |  |  |
| I can solve equations with square and cubic unknowns |  |  |  |
| I can generate and describe sequences using term-to-term and position-to-term rules. |  |  |  |
| I can generate and describe sequences using the nth term. |  |  |  |
| I can generate sequences using quadratic expressions. |  |  |  |
| I can recognise and continue special sequences. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Solving equations involving a bracket** (CM clips 13 & 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, 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. | equation, inverse, balance, bracket, expand, solve, linear, coefficient |
| **2** | Solving equations with the unknown value on both sides (CM clip 113) | equation, inverse, balance, solve, linear, coefficient |
| **3** | Solving equations with square and cubic unknowns (CM clips 7 & 110) | equation, inverse, balance, solve, coefficient |
| **4** | Generating and describing sequences using a term-to-term rule (CM clip 286) | term, generate, describe, sequence, linear, rule |
| **5** | Generating and describing sequences using a position-to-term rule. | term, generate, describe, sequence, linear, rule, position |
| **6** | Generating and **describing sequences using the nth term** (CM clip 288) | term, generate, describe, sequence, linear, rule, nth term |
| **7** | Generating and describing pattern sequences using the nth term (CM clip 290) | term, generate, describe, sequence, pattern, rule, nth term |
| **8** | Generating sequences using quadratic expressions | term, generate, sequence, quadratic, rule |
| **9** | **Recognising and continuing special sequences e.g. square, triangular, Fibonacci, geometric** (CM clips 226, 229 & 278a) | term, generate, describe, sequence, rule, square, triangular, Fibonacci, geometric |