****

 **Mathematics Faculty**

 **Year 7 Spring Term 1 – Pi Scheme**

**Unit 6 Overview - Equations and Sequences**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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, 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. | function, construct, input, output, add, subtract, multiply, divide |
| **2** | Expressing missing number problems algebraically. | expression, equation, term, construct |
| **3** | **Solving one-step equations** (CM clip 110) | equation, solve, unknown, value, add, subtract, multiply, divide, balance, inverse |
| **4** | Solving two-step equations (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.** (CM clips 286 & 287) | sequence, linear, term, difference, generate, describe, rule |
| **6** | Recognising and continuing special sequences such as square, triangular and Fibonacci numbers (CM clips 226, 229 & 287a) | sequence, term, difference, generate, describe, square, triangular, Fibonacci |