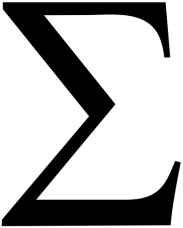
******Mathematics Faculty**

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

**Unit 6 Overview - Equations and Sequences**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Equations and Sequences** | I can understand the difference between equations and identities. |  |  |  |
| I can solve equations involving brackets and unknowns on both sides. |  |  |  |
| I can solve equations with fractions. |  |  |  |
| I can solve simple linear inequalities. |  |  |  |
| I can generate the nth term of a sequence and use it to find a given term in the sequence. |  |  |  |
| I can generate quadratic sequences. |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Understanding the difference between equations and identities. | 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. | term, equation, identity |
| **2** | **Solving equations involving** brackets and **unknowns on both sides** (CM clips 13 & 113) | equation, solve, bracket, expand, unknown, variable, coefficient, balance, inverse |
| **3** | **Solving equations with fractions** (CM clip 111) | equation, solve, unknown, variable, coefficient, fraction, denominator, numerator, balance, inverse |
| **4** | Solving linear inequalities and representing solutions on a number line (CM clips 176 – 179) | solve, inequality, unknown, variable, coefficient, less than, greater than, equal, number line, boundary |
| **5** | **Generating** and describing **sequences using the nth term** (CM clip 288) | position, term, sequence, nth term, substitute, generate |
| **6** | **Generating sequences using quadratic expressions.** | substitute, quadratic, sequence, term, nth term, generate |