** Mathematics Faculty**

**Year 9 Summer Term 1 - Alpha Scheme**

**Unit 9 Overview - Special Numbers and Rounding**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Proportion** | I can round to a given number of significant figures |  |  |  |
| I can estimate calculations by approximating |  |  |  |
| I can estimate the value of the powers and roots |  |  |  |
| I can identify upper and lower bounds |  |  |  |
| I can use inequality notations to describe error intervals |  |  |  |
| I can solve problems involving upper and lower bounds |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Rounding to a given number of significant figures (CM clip 279a) | 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 that alternate between Basic Skills Checks one week and then a more individual ILO the following week through Century and Corbett maths (see learning focus).  Finally, every unit is assessed half-termly as part of our Assessment Calendar in Mathematics. | significant figure, place value, round |
| **2** | **Estimating calculations by rounding to one significant figure** (CM clips 279a & 215) | estimate, approximate, round, significant figure |
| **3** | Estimating the value of the powers and roots (CM clips 212, 214, 215, 226 & 228) | Estimate, approximate, round, square, cube, root |
| **4** | **Identifying upper and lower bounds** (CM clip 280) | bound, round, lower, upper |
| **5** | **Using inequality notation to describe error intervals** (CM clip 183) | bound, round, upper, lower, inequality, less than, greater than, error, interval |
| **6** | Solving problems involving upper and lower bounds (CM clips 183 & 184) | bound, round, upper, lower, inequality, less than, greater than, error, interval |