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**Mathematics Faculty**

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

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

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Special Numbers and Rounding** | I can round to a given number of significant figures |  |  |  |
| I can estimate calculations by approximating |  |  |  |
| I can use a calculator efficiently and round the answer appropriately |  |  |  |
| I can identify upper and lower bounds |  |  |  |
| I can use inequality notation to describe error intervals |  |  |  |
| I can write a number as a product of its prime factors |  |  |  |
| I can find HCFs and LCMs from prime factor decomposition |  |  |  |

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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, which alternate between Basic Skills Checks one week and then a more individual ILO the following set through Century and Corbettmaths (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** | Using a calculator efficiently and **rounding the answer appropriately** (CM clips 278, 279 & 352) | power, index, square, cube, root, bracket, fraction, negative, round, significant figure, decimal place |
| **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, error, interval |
| **6** | Writing a number as a product of its prime factors (CM clip 223) | product, prime, factor, decomposition |
| **7** | **Find HCFs and LCMs from prime factor decomposition** (CM clip 224) | product, prime, factor, decomposition, highest common factor, lowest common multiple  |