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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, 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. | 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 of discrete data (CM clip 280) | bound, round, lower, upper |
| **5** | Using inequality notation to describe error intervals for continuous data (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  |