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**Mathematics Faculty**

**Year 8 Summer Term 1 - Delta Scheme**

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

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Special Numbers and Rounding** | I can round to a given number of decimal places and significant figures |  |  |  |
| I can estimate calculations by rounding and using inverse methods |  |  |  |
| I can write a number as a product of its prime factors |  |  |  |
| I can find HCFs and LCMs from prime factor decomposition |  |  |  |
| I can calculate squares, cubes and roots (positive and negative) |  |  |  |
| I can use a calculator efficiently |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Rounding to a given number of decimal places** (CM clip 278) | 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. | decimal, place value, tenth, hundredth, thousandth, round |
| **2** | Rounding to a given number of significant figures (CM clip 279a) | significant figure, place value, round |
| **3** | Estimating calculations by rounding and using inverse methods (CM clip 215) | estimate, approximate, round, significant figure, inverse |
| **4** | **Writing a number as a product of its prime factors** (CM clip 223) | product, prime, factor, decomposition |
| **5** | Find HCFs and LCMs from prime factor decomposition (CM clip 224) | product, prime, factor, decomposition, highest common factor, lowest common multiple |
| **6** | Calculating positive and negative squares and roots, including exact surds and decimal approximations (CM clips 226 – 228) | square, power, index, root, surd, decimal |
| **7** | Calculating cubes and cube roots (CM clips 212 – 214) | cube, power, index, root |
| **8** | **Using a calculator efficiently** (CM clip 352) | power, index, square, cube, root, bracket, fraction, negative |