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**Mathematics Faculty**

**Year 10 Foundation – Summer Term 1**

**Unit 9 Overview – Accuracy and Estimation**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Accuracy and Estimation** | I can express a number as a product of its prime factors. |  |  |  |
| I can find HCFs and LCMs. |  |  |  |
| I can round to a given number of significant figures. |  |  |  |
| I can estimate the value of calculations by approximating. |  |  |  |
| I can identify upper and lower bounds. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Writing a number as a product of its prime factors (CM clip 223) | 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, Corbettmaths, Dr Frost Maths and Justmaths.  Finally, units are assessed through skills checks and half termly assessments, as part of our Assessment Calendar in Mathematics. | prime, factor, decomposition, product, index, indices |
| **2** | **Finding HCFs and LCMs from prime factor decomposition** (CM clip 224) | prime, factor, decomposition, HCF, LCM, Venn diagram |
| **3** | **Rounding to a given number of significant figures** (CM clip 279a) | round, significant figure, place value |
| **4** | **Using approximation to estimate the value of calculations** (CM clip 215) | round, significant figure, approximate, estimate, calculation |
| **5** | Identifying upper and lower bounds for discrete data and carrying out simple calculations involving bounds (CM clip 183) | round, bound, upper, lower, minimum, maximum |
| **6** | Using inequality notation to describe error intervals for continuous data (CM clip 183) | round, error interval, inequality, upper, lower, maximum, minimum |