****

**Mathematics Faculty**

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

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

|  |  |  |
| --- | --- | --- |
| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Special Numbers & Rounding** | I can round to a given number of decimal places. |  |  |  |
| I can estimate calculations by rounding and inverse methods |  |  |  |
| I can find common multiples and LCMs |  |  |  |
| I can find common factors and HCFs |  |  |  |
| I can list prime numbers less than 100 |  |  |  |
| I can calculate squares, cubes and roots  |  |  |  |
| I can use a calculator efficiently  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **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** | Estimating calculations by rounding and using inverse methods (CM clip 215) | estimate, approximate, round, inverse |
| **3** | **Finding common multiples of two numbers and LCMs** (CM clips 218 & 220) | multiple, lowest common multiple, LCM |
| **4** | **Finding common factors of numbers and HCFs** (CM clips 216 & 219) | factor, highest common factor, HCF |
| **5** | **Recognising prime numbers** (CM clip 225) | prime, composite, factor |
| **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  |