** Mathematics Faculty**

 **Year 8 Autumn Term 1 – Theta Scheme**

 **Unit 1 Overview - 4 Operations**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **4 Operations** | I can understand place value. |  |  |  |
| I can add and subtract decimals. |  |  |  |
| I can multiply 3 - 4 digit numbers by 2 digits.  |  |  |  |
| I can divide 3 - 4 digit numbers by single and double digits. |  |  |  |
| I can multiply and divide decimals. |  |  |  |
| I can compare positive and negative numbers and use inequality symbols. |  |  |  |
| I can use the 4 operations with negative numbers. |  |  |  |
| I can use the correct order of operations. |  |  |  |
| I can solve problems involving money, time, mass and length. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Understanding place value (CM clip 222) | 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. | place value, integer, decimal, digit, hundred, ten, unit, tenth, hundredth |
| **2** | Adding and subtracting decimals. Solving multi-step addition and subtraction problems. (CM clips 90 &91) | addition, subtraction, sum, total, plus, difference, take away, minus, integer, decimal |
| **3** | Multiplying 3 - 4 digit numbers by 2 digits (CM clips 199 & 200)  | multiply, product, total, column, grid, lattice |
| **4** | Multiplying decimals (CM clips 94 & 204) | multiply, product, total, column, grid, lattice, integer, decimal |
| **5** | **Dividing 3 - 4 digit numbers by a** single and **double digit** (CM clips 98, 98a & 103) | division, divisor, quotient, remainder, integer, chunking |
| **6** | Dividing decimals (CM clips 92 & 93) | division, divisor, quotient, remainder, integer, decimal, chunking |
| **7** | **Comparing positive and negative numbers and using inequality symbols** (CM clips 176 & 208) | positive, negative, inequality, greater than, less than, order, compare |
| **8** | Using the 4 operations with negative numbers (CM clips 205 – 207) | positive, negative, operation, addition, subtraction, multiplication, division |
| **9** | **Using the correct order of operations in calculations** (CM clip 211) | order, operation, bracket, index, indices, power, interchangeable, division, multiplication, addition, subtraction |
| **10** | Solving problems involving money, time, mass and length (CM clip 322) | pound, pence, hour, minute, metre, centimetre, kilogram, gram, operation |