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 **Mathematics Faculty**

 **Year 7 Autumn Term 1 – Pi Scheme**

 **Unit 1 Overview - 4 Operations**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **4 Operations** | I can use written methods to add and subtract 3 - 4 digit numbers. |  |  |  |
| I can multiply 3 - 4 digit numbers by 2 digit numbers.  |  |  |  |
| I can divide 3 - 4 digit numbers by a single digit. |  |  |  |
| I understand place value. |  |  |  |
| I can multiply and divide whole numbers by 10, 100 and 1000. |  |  |  |
| I can order positive and negative numbers and use inequality symbols. |  |  |  |
| 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** | Adding 3 – 4 digit numbers (CM clip 6) | 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. | addition, sum, total, plus |
| **2** | Subtracting 3 - 4 digit numbers (CM clip 304) | subtraction, difference, minus, less, take away |
| **3** | Solving multi-step addition and subtraction problems (CM clips 6 & 304) | addition, subtraction, sum, total, plus, difference, take away, minus |
| **4** | **Multiplying 3 - 4 digit numbers by 2 digits** (CM clips 199 & 200)  | multiply, product, total, column, grid, lattice  |
| **5** | **Dividing 3 - 4 digit numbers by a single digit** (CM clips 98 & 103) | division, divisor, quotient, remainder, integer, chunking |
| **6** | Understanding place value (CM clip 222) | place value, digit, integer, decimal |
| **7** | **Multiplying and dividing whole numbers by 10, 100 and 1000** (CM clips 99 & 202) | place value, digit, integer, decimal, multiply, divide |
| **8** | Understanding negative numbers as positions on a number line (CM clip 177) | positive, negative, greater than, less than |
| **9** | Ordering positive and negative numbers and using inequality symbols (CM clip 176) | positive, negative, inequality, greater than, less than, order |
| **10** | Using the correct order of operations in calculations (CM clip 211) | order, operation, bracket, index, indices, power, interchangeable, division, multiplication, addition, subtraction |
| **11** | Solving problems involving money, time, length and mass (CM clip 322) | pound, pence, hour, minute, metre, centimetre, kilogram, gram, operation  |