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**Mathematics Faculty**

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

**Unit 1 Overview - 4 Operations**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **4 Operations** | I can use the 4 operations with integers and decimals. |  |  |  |
| I can use the 4 operations with negative numbers. |  |  |  |
| I can use the correct order of operations. |  |  |  |
| I can convert between standard form and ordinary numbers. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Using the 4 operations with integers (CM clips 6, 98, 103, 199, 200 & 304) | 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, subtract, take away, minus, difference, multiply, product, division, quotient |
| **2** | Understanding place value (CM clip 222) | place value, integer, decimal, digit, hundred, ten, unit, tenth, hundredth |
| **3** | Adding and subtracting decimals (CM clips 90 &91) | addition, subtraction, sum, total, plus, difference, take away, minus, integer, decimal |
| **4** | **Multiplying decimals** (CM clip 94) | multiply, product, total, column, grid, lattice, integer, decimal |
| **5** | **Dividing decimals** (CM clips 92 & 93) | division, divisor, quotient, remainder, integer, decimal, chunking |
| **6** | **Using the 4 operations with negative numbers** (CM clips 205 – 207) | positive, negative, operation, addition, subtraction, multiplication, division |
| **7** | Using the correct order of operations, including with decimals and negatives (CM clip 211) | operation, order, bracket, index, indices, division, multiplication, addition, subtraction, negative, decimal, integer |
| **8** | Solving multi-step problems involving the 4 operations and decimals (CM clips 90 – 94) | addition, sum, total, subtract, take away, minus, difference, multiply, product, division, quotient, integer, decimal |
| **9** | Writing numbers in standard form and as ordinary numbers (CM clip 300) | standard form, power, convert, index |