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**Mathematics Faculty**

**Year 10 Foundation – Spring Term 2**

**Unit 8 Overview – Ratio and Proportion**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Ratio and Proportion** | I can express ratios as fractions. |  |  |  |
| I can solve problems involving ratio. |  |  |  |
| I can solve proportion problems using non-algebraic methods. |  |  |  |
| I can set up equations to solve direct and inverse proportion problems. |  |  |  |
| I can relate algebraic solutions to graphical representations. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Expressing ratios as fractions** (CM clip 269a) | 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. | ratio, fraction, proportion |
| **2** | **Solving problems involving scaling up ratios** (CM clip 271) | ratio, amount, scale, multiply |
| **3** | **Sharing an amount in a given ratio. Calculating amounts when given the difference** (CM clips 270 & 271b) | ratio, amount, part, multiply, divide, difference |
| **4** | **Using proportion to solve problems including best buy problems** (CM clip 255a) | proportion, direct, unitary, value, scale, best-buy |
| **5** | Setting up and using equations to solve problems involving direct proportion. Relating algebraic solutions to graphical representations (CM clip 254) | proportion, direct, equation, graph, linear, solution |
| **6** | Setting up and using equations to solve problems involving inverse proportion. Relating algebraic solutions to graphical representations (CM clip 255) | proportion, inverse, equation, graph, reciprocal, solution |