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 **Mathematics Faculty**

 **Year 10 Foundation – Spring Term 1**

 **Unit 5 Overview – Fractions and Percentages**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Fractions and Percentages** | I can compare fractions. |  |  |  |
| I can express one quantity as a fraction of another. |  |  |  |
| I can calculate fractional increases and decreases. |  |  |  |
| I can use the four operations with mixed numbers. |  |  |  |
| I can calculate percentage change. |  |  |  |
| I can calculate percentage increases and decreases. |  |  |  |
| I can calculate repeated proportional change. |  |  |  |
| I can calculate original values. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Solving fraction problems (CM clips 136, 137 & 144) | 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. | fraction, numerator, denominator, equivalent, order, compare, proportion, multiply, divide, increase, decrease |
| **2** | **Adding and subtracting mixed numbers** (CM clip 133) | numerator, denominator, equivalent, mixed number, improper fraction, add, subtract |
| **3** | **Multiplying and dividing mixed numbers** (CM clips 134 & 142) | numerator, denominator, equivalent, mixed number, improper fraction, multiply, divide |
| **4** | **Calculating percentage change** (CM clip 233) | percentage, profit, loss, difference, original |
| **5** | **Calculating percentage increases and decreases using multipliers** (CM clip 239) | percentage, increase, decrease, multiplier |
| **6** | Calculating simple and compound interest (CM clip 236) | percentage, increase, interest, depreciation, multiplier, compound |
| **7** | Solving repeated percentage change problemsand exploring exponential growth and decay (CM clip 236) | percentage, per cent, multiplier, increase, decrease, exponential, growth, decay |
| **8** | **Using reverse percentages to find the original amount** (CM clip 240) | percentage, original, reverse, multiplier, amount, increase, decrease |