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 **Mathematics Faculty**

 **Year 10 Higher – Spring Term 1**

 **Unit 5 Overview – Fractions, Decimals and Percentages**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Fractions, Decimals and Percentages** | I can convert recurring decimals into fractions and vice versa. |  |  |  |
| I can solve problems involving percentage increases & decreases, reverse percentages and percentage change. |  |  |  |
| I understand the difference between simple and compound interest. |  |  |  |
| I can solve problems involving repeated percentage change. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Converting fractions into recurring decimals (CM clip 127) | 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, decimal, recurring, convert, division |
| **2** | **Using algebraic methods to convert recurring decimals into fractions** (CM clip 96) | fraction, decimal, recurring, convert, algebraic |
| **3** | Solving problems involving percentage increases & decreases, reverse percentages and percentage change (CM clips 233, 238 & 240) | percentage, increase, decrease, multiplier, reverse, original, profit, loss |
| **4** | Solving simple and compound interest problems (CM clip 236) | percentage, interest, simple, compound, multiplier |
| **5** | **Solving problems involving repeated percentage change** and exponential growth and decay (CM clip 236) | percentage, change, repeat, multiplier, increase, decrease, exponential, growth, decay |