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 **Mathematics Faculty**

 **Year 9 Spring Term 1 – Alpha Scheme**

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

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Fractions, Decimals and Percentages** | I can change between recurring decimals and fractions. |  |  |  |
| I can calculate percentage change |  |  |  |
| I can calculate simple and compound interest. |  |  |  |
| I can calculate repeated percentage change. |  |  |  |
| I can calculate reverse percentages. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Recognising which fractions give recurring decimals. Converting fractions into recurring decimals.  | 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. | fraction, decimal, recurring, divide, denominator, prime factor, convert |
| **2** | Converting recurring decimals to fractions (CM clip 96) | fraction, decimal, recurring, convert, equation |
| **3** | Calculating percentage change (CM clip 233) | percentage, original, profit, loss, change, multiply, divide |
| **4** | **Calculating simple and compound interest** (CM clip 236) | percentage, increase, interest, depreciation, multiplier, compound |
| **5** | **Solving repeated percentage change problems** and exploring exponential growth and decay (CM clip 236) | percentage, per cent, multiplier, increase, decrease, exponential, growth, decay |
| **6** | **Using reverse percentages to find the original amount** (CM clip 240) | percentage, original, reverse, multiplier, amount, increase, decrease |