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 **Mathematics Faculty**

 **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 which alternate between Basic Skills Checks one week and then a more individual ILO the following set through Mathswatch and Corbettmaths (see learning focus).Finally every unit is assessed half termly 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 percentage increases and decreases using the multiplier method (MW clips R9b and CM clip 236) | percentage, per cent, multiplier, increase, decrease |
| **5** | Calculating simple and compound interest (MW clips R7 and CM clip 236) | percentage, per cent, multiplier, increase, decrease, simple interest, compound interest |
| **6** | Solving repeated percentage change problems and exploring exponential growth and decay (CM clip 236) | percentage, per cent, multiplier, increase, decrease, exponential, growth, decay |
| **7** | Calculating reverse percentages (MW clip R12 and CM clip 240) | percentage, per cent, divide, reverse, original |