**** **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 use the four operations with mixed numbers |  |  |  |
| I can recognise which fractions give recurring decimals |  |  |  |
| I can calculate simple and compound interest |  |  |  |
| I can calculate reverse percentages |  |  |  |
| I can calculate percentage change |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Adding and subtracting mixed numbers (MW clip N36 and CM clip 133) | 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 that alternate between Basic Skills Checks one week and then a more individual ILO the following week through Mathswatch and Corbettmaths (see learning focus). Finally every unit is assessed half termly as part of our Assessment Calendar in Mathematics. | numerator, denominator, equivalent, simplify, mixed number, improper fraction, add, subtract |
| **2** | Multiplying and dividing mixed numbers(MW clips N37a & N37b and CM clips 142 & 134) | numerator, denominator, multiply, divide, simplify, mixed number, improper fraction |
| **3** | Solving problems involving the four operations and mixed numbers (MW clips N36, N37a & N37b and CM clips 133, 142 & 134) | numerator, denominator, equivalent, simplify, mixed number, improper fraction, add, subtract, multiply, divide |
| **4** | Recognising which fractions give recurring decimals | fraction, decimal, recurring, divide, denominator, prime factor |
| **5** | Using a formula to calculate simple interest (MW clip R7) | percentage, increase, amount, multiplier, interest |
| **6** | Using a formula to calculate compound percentages (CM clip 236) | percentage, interest, depreciation, multiplier, formula, amount, VAT |
| **7** | Using reverse percentages to find the original amount (MW clip R12 and CM clip 240) | percentage, original, reverse, multiplier, amount, increase, decrease |
| **8** | Calculating percentage change (CM clip 233) | percentage, profit, loss, difference, original |