**** **Mathematics Faculty**

**Year 8 Spring Term 1 – Sigma 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 use the four operations with mixed numbers. |  |  |  |
| I can recognise which fractions give recurring decimals. |  |  |  |
| I can calculate percentage change. |  |  |  |
| I can calculate percentage increases and decreases. |  |  |  |
| I can calculate simple and compound interest. |  |  |  |
| I can calculate reverse percentages. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Adding, subtracting, multiplying and dividing mixed numbers** (CM clips 133, 134 & 142) | 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. | numerator, denominator, equivalent, mixed number, improper fraction, add, subtract, multiply, divide |
| **2** | Recognising which fractions give recurring decimals | fraction, decimal, recurring, divide, denominator, prime factor |
| **3** | Calculating percentage change (CM clip 233) | percentage, profit, loss, difference, original |
| **4** | **Calculating percentage increases and decreases using multipliers** (CM clip 239) | percentage, increase, decrease, multiplier |
| **5** | Calculating simple and compound interest (CM clip 236) | percentage, increase, interest, depreciation, multiplier, compound |
| **6** | Using reverse percentages to find the original amount (CM clip 240) | percentage, original, reverse, multiplier, amount, increase, decrease |