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**Mathematics Faculty**

**Year 7 Spring Term 1 – Pi 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 simplify fractions and find equivalent fractions. |  |  |  |
| I can compare fractions. |  |  |  |
| I can change between mixed numbers and improper fractions. |  |  |  |
| I can use the four operations with fractions. |  |  |  |
| I can compare decimals. |  |  |  |
| I can find simple equivalent fractions, percentages and decimals. |  |  |  |
| I can calculate percentages of amounts. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Finding equivalent fractions and writing fractions in their simplest form** (CM clips 135 & 146) | 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, numerator, denominator, equivalent, simplify, cancel |
| **2** | Ordering and comparing fractions with different denominators (CM clip 144) | fraction, numerator, denominator, equivalent, order, compare |
| **3** | Changing between mixed numbers and improper fractions (CM clips 139 & 140) | improper fraction, mixed number, multiply, divide, convert |
| **4** | Adding and subtracting fractions with different denominators (CM clip 133) | numerator, denominator, add, subtract, equivalent, lowest common multiple |
| **5** | Multiplying fractions by another fraction or an integer (CM clip 142) | fraction, integer, numerator, denominator, multiply |
| **6** | Dividing fractions by another fraction or an integer (CM clip 134) | fraction, integer, numerator, denominator, divide |
| **7** | Understanding place value with decimals. Ordering and comparing decimals with a different number of decimals places (CM clip 95) | decimal, place value, decimal place, order, compare |
| **8** | Finding simple equivalent fractions, decimals and percentages (CM clip 129) | fraction, decimal, percentage, equivalent, multiply, divide |
| **9** | Calculating percentages of amounts mentally (CM clip 234) | percentage, per cent, hundredth, calculate, divide, multiply |
| **10** | Finding percentages of amounts on a calculator (CM clip 235) | percentage, per cent, hundredth, calculate, divide, multiply |