** 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 simplify fractions and find equivalent fractions |  |  |  |
| I can use the four operations with fractions and mixed numbers |  |  |  |
| I can solve problems involving fractions |  |  |  |
| I can find equivalent fractions, percentages and decimals |  |  |  |
| I can order and compare fractions, percentages and decimals |  |  |  |
| I can calculate percentages of amounts |  |  |  |
| I can express a quantity as a fraction or percentage of another |  |  |  |
| I can calculate reciprocals |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | |  |  | | --- | --- | | Finding equivalent fractions and writing fractions in their simplest form (MW clips N23b & c and 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 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, numerator, denominator, equivalent, simplify, cancel |
| **2** | |  |  | | --- | --- | | Adding and subtracting fractions and mixed numbers (MW clip N36 and CM clip 133) |  | | numerator, denominator, add, subtract, lowest common multiple, improper fraction, mixed number |
| **3** | |  |  | | --- | --- | | Multiplying fractions and mixed numbers (MW clip N37a and CM clip 142) |  | | fraction, numerator, denominator, multiply, integer, improper fraction, mixed number |
| **4** | |  |  | | --- | --- | | Dividing fractions and mixed numbers (MW clip N37b and CM clip 134) |  | | fraction, integer, numerator, denominator, divide, keep, flip, change |
| **5** | |  |  | | --- | --- | | Solving problems involving fractions (MW clips N36, N37a & N37b and CM clips 133, 142 & 134) |  | | fraction, numerator, denominator, add, subtract, equivalent, lowest common multiple, improper fraction, mixed number, multiply, divide |
| **6** | |  |  | | --- | --- | | Finding equivalent fractions, decimals and percentages (MW clip N32 and CM clip 129) |  | | equivalent, fraction, decimal, percentage, simplify, equal, multiply, divide |
| **7** | Ordering and comparing fractions, decimals and percentages (MW clip N32 and CM clip 131) | decimal, place value, decimal place, order, compare, fraction, percentage, equivalent |
| **8** | Calculating percentages of amounts mentally and on a calculator (MW clip N24b and CM clips 234 & 235) | percentage, per cent, hundredth, calculate, divide, multiply |
| **9** | |  |  | | --- | --- | | Expressing quantities as a fraction or percentage of another. Comparing quantities using fractions and percentages (MW clip N39b and CM clips 136 & 237) |  | | fraction, percentage, quantity, equivalent, multiply, divide, compare |
| **10** | Calculating reciprocals (CM clip 145) | reciprocal, integer, fraction, decimal, divide |