**** **Mathematics Faculty**

**Unit 8 Overview**

**Ratio and Proportion**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Ratio and Proportion** | I can convert ratios into fractions and vice versa |  |  |  |
| I can solve problems involving ratio and proportion |  |  |  |
| I can solve problems involving direct and inverse proportion |  |  |  |
| I can represent direct and inverse proportion graphically |  |  |  |
| I can use compound units |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Converting fractional representations their ratio equivalent and vice versa (CM clip 269a) | 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 Maths watch and Corbett maths (see learning focus). Finally, every unit is assessed half-termly as part of our Assessment Calendar in Mathematics. | ratio, fraction, equivalent, convert, proportion |
| **2** | Solving problems involving ratio and proportion (MW clips R5b & R8 and CM clips 270, 271 % 255a) | ratio, parts, simplify, divide, equivalent, proportion, unitary |
| **3** | Solving problems involving direct and indirect proportion (MW clips R8 & R13 and CM clips 255 & 256) | proportion, direct, inverse, unitary  |
| **4** | Representing direct and indirect proportion graphically  | proportion, direct, inverse, graph, linear, reciprocal |
| **5** | Using compound units such as speed, density, pressure and rates of pay (MW clips R11a & R11b and CM clips 299, 384 & 385) | unit, compound, speed, distance, time, density, mass, volume, pressure, force, area, rate |
| **6** | Converting between compound units (MW clips R11a & R11b and CM clips 299, 384 & 385) | unit, compound, speed, distance, time, density, mass, volume, pressure, force, area, rate, convert |