**** **Mathematics Faculty**

**Unit 8 Overview**

**Ratio and Proportion**

|  |  |  |
| --- | --- | --- |
| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Ratio and Proportion** | I can divide a quantity in a given ratio |  |  |  |
| I can convert a fractional representation into its ratio equivalent and vice versa |  |  |  |
| I can solve problems involving ratio and map scales |  |  |  |
| I can understand the difference between ratio and proportion |  |  |  |
| I can calculate simple direct proportion |  |  |  |
| I can solve problems involving ratio and proportion |  |  |  |
| I can use compound units such as speed, density, pressure and rates of pay |  |  |  |
| I can convert between compound units |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Dividing a quantity in a given ratio (MW clip R5b and CM clip 270) | 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 through Mathswatch and Corbettmaths (see learning focus).Finally every unit is assessed half-termly as part of our Assessment Calendar in Mathematics. | ratio, divide, quantity, part, add, multiply |
| **2** | Converting fractional representations into their ratio equivalent and vice versa (CM clip 269a) | notation, ratio, fraction, equivalent, convert |
| **3** | Solving problems involving ratio and map scales (MW clip R6 and CM clip 283) | ratio, map, scale, size |
| **4** | Understanding the difference between ratio and proportion. Calculating simple direct proportion using the unitary method (MW clip R4 and CM clip 225a) | ratio, proportion, unitary, divide, multiply |
| **5** | Solving problems involving ratio and proportion (MW clips R5b & R4 and CM clips 270 & 225a) | ratio, proportion, unit, multiply, divide, compare |
| **6** | 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 |
| **7** | 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 |