**** **Mathematics Faculty**

**Year 8 Spring Term 2 – Delta Scheme**

**Unit 8 Overview - Ratio and Proportion**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Ratio and Proportion** | I can simplify ratios. |  |  |  |
| 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/scale drawings. |  |  |  |
| I can solve problems involving proportion. |  |  |  |
| I can use compound units such as speed and density. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Simplifying ratios, including those with different units and writing in the form 1:n (CM clips 269 & 271c) | 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. | simplify, ratio, divide, factor, common, integer, unit |
| **2** | **Dividing a quantity in a given ratio** (CM clip 270) | ratio, divide, quantity, part, add, multiply |
| **3** | Converting fractional representations into their ratio equivalent and vice versa (CM clip 269a) | notation, ratio, fraction, equivalent, convert |
| **4** | Solving problems involving ratio and map scales/scale drawings (CM clip 283) | ratio, map, scale, size, unit |
| **5** | Calculating simple direct proportion using the unitary method. **Solving problems, including best buy problems** (CM clip 225a) | ratio, proportion, unitary, divide, multiply, value, compare |
| **6** | Using compound units such as speed and density (CM clips 299 & 384) | unit, compound, speed, distance, time, density, mass, volume |