**** **Mathematics Faculty**

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

**Unit 8 Overview - Ratio and Proportion**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Ratio and Proportion** | I can solve mixed ratio problems. |  |  |  |
| I can solve simple problems involving direct and inverse proportion. |  |  |  |
| I can represent direct and inverse proportion graphically. |  |  |  |
| I can use and convert compound units. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Solving mixed ratio problems (CM clips 269 - 271) | 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. | ratio, simplify, unit, fraction, equivalent, convert, proportion, divide, part, add, multiply |
| **2** | **Solving simple problems involving direct and inverse proportion**  | proportion, direct, inverse, unitary  |
| **3** | Representing direct and inverse proportion graphically.  | proportion, direct, inverse, graph, linear, reciprocal |
| **4** | Using compound units such as speed, density, pressure and rates of pay. Converting compound units for speed. (CM clips 299, 384 & 385) | unit, compound, speed, distance, time, density, mass, volume, pressure, force, area, rate, convert |