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**Mathematics Faculty**

**Year 8 Summer Term 2 - Theta Scheme**

**Unit 11 Overview - Measurement and Transformations**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Measurement and Transformations** | I can convert metric units. |  |  |  |
| I can convert metric and imperial units. |  |  |  |
| I can convert time units. |  |  |  |
| I can solve problems involving measurement. |  |  |  |
| I can identify quadrilaterals by their angle and symmetry properties. |  |  |  |
| I can reflect shapes in the axes and lines parallel to the axes. |  |  |  |
| I can rotate shapes on a grid. |  |  |  |
| I can translate shapes using vectors. |  |  |  |
| I can enlarge shapes. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Converting metric units**  (CM clips 349a-349c) | 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. | kilometre, metre, centimetre, millilitre, kilogram, gram, litre, centilitre, millilitre |
| **2** | Converting metric and imperial units (CM clips 349d-349f) | kilometre, centimetre, mile, foot, inch, kilogram, pound, litre, gallon, pint |
| **3** | **Converting time units** (CM clip 322) | year, month, week, day, hour, minute, second |
| **4** | Solve problems involving measurement (CM clips 349a-c & 322) | length, height, weight, capacity, time |
| **5** | Identifying quadrilaterals by their angle and symmetry properties (CM clip 2) | quadrilateral, square, rectangle, parallelogram, kite, trapezium, angle, symmetry |
| **6** | Reflecting shapes in the axes and lines parallel to the axes (CM clip 272) | reflect, axis, line, horizontal, vertical, parallel |
| **7** | Rotating shapes on a grid (CM clip 275) | rotation, point, direction, (anti)clockwise, degree, centre, axis |
| **8** | Translating shapes using vectors (CM clip 325) | translate, direction, vector |
| **10** | **Enlarging shapes by a positive whole number scale factor** (CM clip 104) | enlarge, scale factor, positive |