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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 parallel and perpendicular lines |  |  |  |
| 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 |  |  |  |
| I can construct plans and elevations |  |  |  |

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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, which alternate between Basic Skills Checks one week and then a more individual ILO the following set through Century and Corbettmaths (see learning focus).  Finally, every unit is assessed half-termly 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 parallel and perpendicular lines** (CM clips 231 & 232) | parallel, perpendicular |
| **6** | Identifying quadrilaterals by their angle and symmetry properties (CM clip 2) | quadrilateral, square, rectangle, parallelogram, kite, trapezium, angle, symmetry |
| **7** | Reflecting shapes in the axes and lines parallel to the axes (CM clip 272) | reflect, axis, line, horizontal, vertical, parallel |
| **8** | Rotating shapes on a grid (CM clip 275) | rotation, point, direction, (anti)clockwise, degree, centre, axis |
| **9** | 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 |
| **11** | Constructing plans and elevations (CM clip 354) | construct, plan, view, elevation, 2D, 3D |