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**Mathematics Faculty**

**Year 9 Summer Term 2 - Delta Scheme**

**Unit 11 Overview - Measurement and Transformations**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Measurement and Transformations** | 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 by a positive whole number scale factor and a fractional scale factor |  |  |  |
| I can describe transformations |  |  |  |
| I can construct plans and elevations |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Identifying parallel and perpendicular lines (CM clips 231 & 232) | 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. | parallel, perpendicular |
| **2** | **Identifying quadrilaterals by their angle and symmetry properties** (CM clip 2) | quadrilateral, square, rectangle, parallelogram, kite, trapezium, angle, symmetry |
| **3** | **Reflecting shapes in the axes and lines parallel to the axes** (CM clip 272) | reflect, axis, line, horizontal, vertical, parallel |
| **4** | **Rotating shapes on a grid** (CM clip 275) | rotation, point, direction, (anti)clockwise, degree, centre, axis |
| **5** | **Translating shapes using vectors** (CM clip 325) | translate, direction, vector |
| **6** | **Enlarging shapes by a** positive and **a fractional scale factor** (CM clip 104 & 107) | enlarge, scale factor, positive, fractional |
| **7** | Describing transformations  (CM clips 105, 273, 275 & 326) | transformation, reflection, rotation, direction, angle, translation, vector, enlargement, scale factor, centre |
| **8** | Constructing plans and elevations (CM clip 354) | construct, plan, view, elevation, 2D, 3D |