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**Mathematics Faculty**

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

**Unit 11 Overview – Transformations and Constructions**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Transformations and Constructions** | I can transform shapes by a combination of reflections, rotations, translations and enlargements. |  |  |  |
| I can describe transformations. |  |  |  |
| I can calculate lengths of similar shapes. |  |  |  |
| I can bisect lines and angles |  |  |  |
| I can construct a perpendicular line from a point to a line and from a point on a line. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Transforming shapes by a combination of reflections, rotations, translations and enlargements by positive and negative scale factors** (CM clips 104a, 107, 272, 275 & 325) | 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. | transformation, reflection, rotation, direction, angle, translation, vector, enlargement, scale factor, centre, positive, fractional |
| **2** | Describing transformations  (CM clips 105, 273, 275 & 326) | transformation, reflection, rotation, direction, angle, translation, vector, enlargement, scale factor, centre |
| **3** | Calculating lengths of similar shapes (CM clip 292) | length, similar, scale factor, enlargement |
| **4** | Bisecting lines and angles. Constructing a perpendicular line from a point to a line and from a point on a line (CM clips 72, 78, 79 & 80) | bisect, line, perpendicular, point, compass, angle |