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**Mathematics Faculty**

**Year 7 Summer Term 2 - Pi 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 reflect shapes in horizontal, vertical and diagonal lines |  |  |  |
| I can identify the order of rotational symmetry |  |  |  |
| I can rotate shapes about a point |  |  |  |
| I can translate shapes |  |  |  |
| I can identify quadrilaterals by their angle and symmetry properties |  |  |  |

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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** | **Reflecting shapes in horizontal, vertical and diagonal lines** (CM clip 272) | reflection, axis, line, mirror |
| **6** | Identifying the order of rotational symmetry (CM clip 317) | rotation, order |
| **7** | **Rotating shapes about a point** (CM clip 275) | rotation, point, direction, (anti)clockwise, degree |
| **8** | **Translating shapes** | translate, direction |
| **9** | Identifying quadrilaterals by their angle and symmetry properties (CM clip 2) | quadrilateral, square, rectangle, parallelogram, kite, trapezium, angle, symmetry |