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**Mathematics Faculty**

**Year 8 Summer Term 1 - Theta Scheme**

**Unit 10 Overview - Coordinates and Linear Graphs**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Coordinates and Linear Graphs** | I can plot coordinates in all four quadrants. |  |  |  |
| I can give the coordinates of missing vertices of shapes |  |  |  |
| I can find the midpoint of a line segment |  |  |  |
| I can recognise and sketch graphs of linear functions that are parallel to the axes and of the form y = +/- x |  |  |  |
| I can generate coordinates that satisfy a simple linear rule and plot simple linear graphs |  |  |  |
| I can read and interpret graphs in context |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Plotting coordinates in all four quadrants** (CM clip 84) | 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. | plot, coordinate, quadrant, positive, negative, axis |
| **2** | Finding the coordinates of missing vertices of shapes (CM clip 85) | plot, coordinate, quadrant, positive, negative, axis, vertices, triangle, isosceles, equilateral, rectangle, parallelogram |
| **3** | Finding the midpoint of a line segment (CM clip 87) | line, segment, midpoint, coordinate |
| **4** | **Recognising and sketching graphs of linear functions that are parallel to the axes. Recognising and sketching y = +/- x graphs** (CM clips 192 & 193) | linear, graph, parallel, axis, horizontal, vertical, sketch |
| **5** | Generating coordinates that satisfy a simple linear rule. Plotting simple linear graphs  (CM clips 186 & 187) | coordinate, generate, graph, linear, equation, substitute |
| **6** | Reading and interpreting graphs in context | graph, linear, coordinate, interpret |