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**Mathematics Faculty**

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

**Unit 10 Overview - Coordinates and Graphs**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Coordinates and Graphs** | 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 linear rule and plot the corresponding graph. |  |  |  |
| I can interpret gradients as a rate of change and interpret intercepts graphically. |  |  |  |
| I can plot and interpret graphs in real-life contexts. |  |  |  |
| I can plot and interpret quadratic graphs. |  |  |  |
| I can interpret curved real-life graphs. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Recognising and sketching graphs of linear functions that are parallel to the axes. Recognising and sketching y = +/- x graphs. (CM clips 192 & 193) | 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. | linear, graph, parallel, axis, horizontal, vertical, sketch |
| **2** | **Generating coordinates that satisfy a simple linear rule and plotting the corresponding graph** (CM clips 186 & 187) | coordinate, generate, graph, linear, equation, substitute |
| **3** | **Interpreting gradients as a rate of change and interpreting intercepts graphically** (CM clip 189) | gradient, rate, change, intercept, axis, coordinate, graph |
| **4** | Plotting and interpreting graphs in real-life contexts including distance-time (CM clip 171) | plot, graph, coordinate, interpret, speed, distance, time, gradient, horizontal |
| **5** | Completing a table of values for quadratic graphs and plotting the corresponding graph (CM clip 264) | coordinate, generate, graph, quadratic, equation, substitute, plot |
| **6** | Interpreting real-life curved graphs. | graph, curved, real-life, data, interpret |