



# Longfield Learning Journey



<b>Key Stage 3 Extend</b>	<b>Unit 7 – Year 8 Coordinates and Linear Functions</b>	<b>Term: 2.2</b>		
<b>Key Words:</b>	<b>Prerequisites</b>	<b>R</b>	<b>A</b>	<b>G</b>
Cartesian, coordinates, dimensions, plot, graph, relationship, variables, functions, linear, gradient, y-intercept, axis, origin, quadrants, horizontal, vertical.	Be able to read numbers from a number line.			
	Understand the concepts of working with algebraic expressions.			
	Be able to solve simple equations			

	<b>Content: Coordinates and Linear Functions</b>	<b>R</b>	<b>A</b>	<b>G</b>
7.1 Cartesian Coordinate System	Construct the Cartesian coordinate system in two dimensions and state the coordinates of points on it			
7.2 Idea of a Function	Recognise the idea of functions			
	Plot a graph of a set of ordered pairs as a representation of a relationship between two variables			
7.3 Linear Functions and their Graphs	Recognise linear functions in the form of $y = mx + c$ and draw their graphs			
7.4 Gradients of Linear Graphs	Find the gradient of a linear graph			

<b>K</b> <i>What you know</i>	<b>W</b> <i>What you want to know</i>	<b>L</b> <i>What have you learned</i>