



Lode Heath School
Mathematics Department
Year 8 Higher

Assignment Title	Unit 10: Graphs	Date set	Summer 2
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Summary of Unit 10	Key Words
Plot linear graphs from a table and directly from an equation. Find the gradient and intercept of straight line graphs. Identifying parallel and perpendicular lines. Plot non-linear graphs.	Plotting, equation, coordinates, parallel, perpendicular, inverse.

Prior Knowledge
<ol style="list-style-type: none"> Find the value of $2x+3$ when $x = 4$ Describe how you would plot these Plot these coordinates: $(3,2)$ $(-2, 4)$ Simplify this ratio 28:14 What number is halfway between 8 and 14?

LEARNING JOURNEY

Level	Task Description
	10.1 Plotting linear graphs (GCSE Statistics) Plot straight-line graphs. Find the y-intercept of a straight-line graph.
	10.2 The gradient (GCSE Statistics) Find the gradient of a straight-line graph. Plot graphs using the gradient and y-intercept.
	10.3 $y = mx + c$ (GCSE Statistics) Use $y = mx + c$ Find the equation of a straight-line graph.
	10.4 Parallel and perpendicular lines Identify parallel and perpendicular lines.
	10.5 Inverse functions Find the inverse of a linear function.
	10.6 STEM: Non-linear graphs Plot and use non-linear graphs.