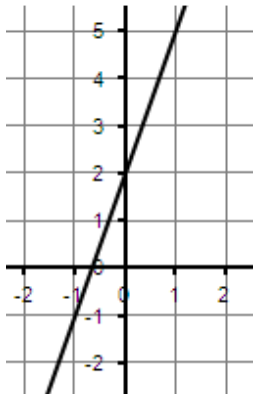


Straight Line Graphs Topic Checklist

Grade	Skill	Understanding										
<i>GCSE grade</i>	<i>This is a description of what you need to be able to do. It includes an example, so you can check if you understand by seeing if you could complete the example.</i>	\checkmark if confident – if not very sure × if very unsure										
D	Plot coordinates on a graph, including negatives. Eg: <i>Plot the points (2,3), (5, -6) and (-1, -4)</i>											
C	Substitute numbers into a straight line graph equation. Eg: <i>Complete the table of values for $y = 3x - 2$</i> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">x</td> <td style="text-align: center;">-1</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">y</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	x	-1	0	1	2	y					
x	-1	0	1	2								
y												
B	Find the equation of a line from a graph . Eg: <i>Find the equation of this line:</i> 											
C/B	Find the equation of a line from its gradient and intercept . Eg: <i>Write the equation of the line which crosses the y - axis at (0,3) and has a gradient of - 1</i>											
B	Find the equation of a line from its gradient and any point . Eg: <i>Write the equation of the line with gradient 4 passing through (2, -1)</i>											
B/A	Find the equation of a line parallel to a given line. Eg: <i>Write down the equation of a line parallel to $y = 4x - 1$</i>											
A	Find the equation of a line perpendicular to a given line, through a given point . Eg: <i>The line L passes through (2, -4) and is perpendicular to $y = -x - 5$. Find the equation of L.</i>											