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Nlat	homatics
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Equations	Straight Line Graphs
Equation - A statement that two things are equal, it contains expressions on both sides of the equal sign. <i>e.g.</i> 5 = 2x + 1	Origin —A fixed point at which measurements are taken from. On a graph, this is the centre (point (0,0))
Inverse operations - Used to solve equations. Addition and subtraction are inverse operations. Also, multiplication and division are inverse operations.	 Linear graph – Produces a continuous straight line y = mx + c – This is often the form of a linear graph where m is the gradient and c is the y intercept
Inequality - when one quantity is not equal to another. We use the following symbols: ≠ not equal ≤ less than or equal to < less than	Table of Values – When plotting a graph, we often use a table of values to help us generate coordinates that meet a given criteria.
> greater than \geq greater than or equal to	y-intercept – Where a line crosses the y – axis
Solution set - the range of values that satisfies a particular inequality.	When we talk about the steepness of a line we are referring to its gradient
Formula - a mathematical rule expressed with symbols e.g. f = m + a	
The plural of formula is formulae	Lines are parallel if they have the same gradient e.g. $y = \underline{3}x + 4$ and $y = \underline{3}x - 2$ are parallel
Subject of a formula - the single variable that is equal to everything else. In the example above force (f) is the subject	Horizontal —A line parallel to the horizon Horizontal graphs are in the form $y = n$ e.g. $y = 5$
Variable – A symbol for a value that we don't yet know, this is commonly represented by a letter such as x or y .	Vertical – At a right angle to the horizontal plane Vertical graphs are in the form $x = n$ e.g. $x = 12$