## The Straight Line.

You will be able to: Construct a table of values in order to plot points of a straight line.

In Maths, we give Straight Lines "equations", these give the straight lines names which tell us the direction of the line and where it cuts the x-axis and the y-axis. At General Level, you are required to draw a straight line from a table of values as shown in the examples below.

Example 1: Complete the table below which relates to the equation $y=2 x+3$. And draw the straight line on the co-ordinate grid.


Can you see that we use the equation that we are given and substitute the value of $x$ each time into the equation to get the value of $y$. These give us co-ordinates which we can now plot. The co-ordinates are $\rightarrow$


Example 2: Complete the table below and draw the line with equation $y=x+4$


$(-1,3)$
$(0,4)$
$(2,6)$

Note that you must be careful when working with negative numbers to ensure you get the correct co-ordinates.

