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 = 2x + 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

(1,5)

(0,3)

- (2,7)
- (3,9) (4,11)









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