Excel formulas and shortcuts

Full alphabetical list of formulas

https://support.microsoft.com/en-gb/office/excel-functions-alphabetical-b3944572-255d-4efbbb96-c6d90033e188

Shortcuts

https://support.microsoft.com/en-gb/office/keyboard-shortcuts-in-excel-1798d9d5-842a-42b8-9c99-9b7213f0040f#bkmk_freqwin

Function	What it does	Example
+ - * / < >	Add, subtract, multiply, divide, less than	=A1+B2
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	greater than	=C3*D4
()	Indicates what order to do things inner	=((A1+B2) *C3)/D1
0	set first then work out	=((A1+B2) *C3)/D1
		Red then blue then green
٨	To the power of	=A2^5 ten to the power 5
е	Short of times 10 to the power of	$=3E8$ would be $3x10^8$
=SUM()	Add all the cells together	=SUM(A2:A11)
		=SUM(A2:A11,C2:C11)
=AVERAGE()	Finds average (mean) of data	=AVERAGE(A2:A11)
=MODE.MULT()	Finds all the modes – make sure you	=MODE.MULT(A2:A11)
	have space under for multiple ones	
=STDEV.P()	Finds standard deviation of the whole set	=STDEV.P(A2:A11)
=MEDIAN()	Finds average median (middle value) of	=MEDIAN(A2:A11)
	data	
=COUNT()	Counts the total number of cells with a	=COUNT(A2:A11)
	value in them (also countblank count	
	black cells, countif count if conditions met	
	and countifs count if multiple conditions	
	met)	
=MAX()	Finds maximum value	=MAX(A2:A11)
=MIN()	Finds minimum value	=MIN(A2:A11)
=TODAY()	Returns today's date	=TODAY()
=NOW()	Returns today's date and time	=NOW()
=IF()	Does a test and returns a value	=IF(test, TRUE, FALSE)
	depending on outcome – tricky syntax	Eg to find in a number is bigger
		than 4
		=IF(A2>4, "Yes", "No")
		Words need inverted commas
		numbers don't
		=IF(A2>4, 1, 2)
=OR()	If any of the statements is true it returns	=OR(A2>4, B3=2, D2>3)
U U	true if not false	Would return true if anyone of
		those is correct if none of them
		then it would say false
=AND()	If any ALL if statements are true it returns	=AND(A2>4, B3=2, D2>3)
v	true if not false	Would return true only if all were
		true if not it would return false
=SQRT()	Finds square root	=SQRT(A2)
=SIN() =COS()	Sin of angel in radians not degree (1	=SIN(A2)
=TAN()	degree = $\pi/180$ radians	
Ctrl	Hold and click allows section on non-	
	adjacent cells	

Ctrl + shift+enter	Allows an array to be returned	
Right click to paste	Use paste special	Will copy selected parts eg formulas, values, formats
Ctrl+S	Save	
Ctrl+F	Search	
Ctrl+1	Text options	
Copy with change	Grab bottom right of box and pull down	
Copy without changes	Ctrl and grab bottom right of box and pull down	
\$	Keep cell constant (absolute rather than variable)	=A2*\$B\$2 As you copy A2 will change to A3, A4 etc but B2 will always be B2 You can use just one \$ to keep just the letter or number constant

Editing graphs

- Highlight cells
- Insert / chart type / choose chart type
- To change which data is where click on data points then it will highlight cells and you can drag highlighted area over the ones you want.
- · Hover or left click on element you want to change
- Then right click for options
- Top tab with chart clicked on chart design to add elements change chart style
- Top tab with element clicked on format
- Options from graphic on right
 + chart elements paint brush style, funnel data options

+	
ß	
7	

- Short cut if the graph isn't putting the data in the right format try making it a scatter then change chart type back to the one you want.
- To get a linear scale on a bar chart x axis go to format axis/axis options/ the pic of the bar chart / change the axis type to data axis (no idea why it works!)