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Excel 2003 Reference Sheet

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CTRL Shortcuts		Formatting Shortcuts		Navigation and Data Editing	
CTRL + A	Select All	ALT + '	Display style	Arrow keys ◆	Move to new cells
CTRL + B	Bold	CTRL + 1	Format Box	ALT + ↓	Display a drop-down list
CTRL + C	Copy	SHIFT + CTRL + ~	General format	ALT + Tab	Switch programs
CTRL + C, ALT E+S	Paste Special	SHIFT + CTRL + !	Number format	CTRL + Pg Up/Down	Switch worksheets
CTRL + D	Fill Down	SHIFT + CTRL + @	Time format	CTRL + Tab	Switch workbooks
CTRL + F	Find	SHIFT + CTRL + #	Date format	CTRL + Arrow keys	Go to end of contiguous range
CTRL + G	Go to	SHIFT + CTRL + \$	Currency format	SHIFT + Arrow keys	Select a cell range
CTRL + H	Replace	SHIFT + CTRL + %	Percentage format	SHIFT + CTRL + Arrow keys	Highlight contiguous range
CTRL + I	Italic	SHIFT + CTRL + ^	Exponential format	Home	Move to beginning of row
CTRL + K	Insert Hyperlink	SHIFT + CTRL + &	Outline border	CTRL + Home	Move to cell "A1"
CTRL + N	New Workbook	SHIFT + CTRL + _	Remove border	F5	"Go to"
CTRL + O	Open File	SHIFT + CTRL + *	Select region	ENTER	Move to cell below
CTRL + P	Print	Tools > Customize > Options	Show full menus	SHIFT + ENTER	Move to cell above
CTRL + R	Fill right	P		TAB	Move to cell to the right
CTRL + S	Save workbook			SHIFT + TAB	Move to cell to the left
CTRL + U	Underline	Columns and Rows		BACKSPACE	Delete cell and get inside
CTRL + V	Paste	CHIET . C	TT:-1:1:-1-4	DELETE	Delete cell/selection
CTRL + W	Close window	SHIFT + Spacebar	Highlight row	F2	Edit/ highlight dependent cells
CTRL + X	Cut	CTRL + Spacebar	Highlight column	When inside cell	
CTRL + Y	Repeat	SHIFT + ALT +	Group rows/columns	ALT + ENTER	Start new line in same cell
CTRL + Z	Undo	SHIFT + ALT + -	Ungroup rows/columns	SHIFT + Arrow keys	Highlight within cells
CTRL + 1	Format Box	CTRL + Minus sign	Delete selected cells	SHIFT + CTRL + Arrow keys	Highlight contiguous items
CTRL + 5	Strike-through Hide/show toolbar	SHIFT + CTRL + Plus Sign	Insert blank cells	BACKSPACE	Delete preceding character
CTRL + 7 CTRL + 9	Hide row			DELETE	Delete character to the right
SHIFT + CTRL + 9	Unhide row	Function Key Shortcuts		F4	Anchor "Fix" Cells
CTRL + 0	Hide column			ESC	Cancel a cell entry
SHIFT + CTRL + 0	Unhide column	F1	Excel Help Menu	F7	Spell check
CTRL + ~	Show formulas/values	F2	Edit cells	SHIFT + F2	Insert a comment
CTRL + '	Copy above formula	F3	Paste Name	CTRL + F3	Name a cell
CTRL + ;	Display date	F4	Repeat or anchor cells		
SHIFT + CTRL + :	Display time	F5	"Go to"	Formulas and Auditing	
CTRL + [Precedents	F6	Next pane in split mode		
CTRL +]	Dependents	F7	Spell check	= (equals sign)	Start a formula
CTRL + Enter	Fill selection w/ entry	F8	Anchor to highlight	SHIFT + F3	Display "Insert Function" box
ALT Shortcuts	•	F9	Recalculate workbooks	ALT + "="	Insert AutoSum formula
	0.1.1	F10	Activate menu bar	CTRL + ' (apostrophe)	Copy formula from above cell
ALT + Tab	Switch program	F11	New chart	SHIFT + CTRL + " (quote)	Copy value from above cell
ALT + '	Display style	F12	Save as	CTRL + ~	Show formulas/values
ALT + T + O	Options Menu	SHIFT + F2	Insert a comment	F9	Recalculate all workbooks
ALT + T + I	Add-Ins Menu	SHIFT + F3	"Insert Function" Box	Auditing formulas	
ALT + E + S	Paste special box	SHIFT + F4	Find Next	ALT + T + U + T	Trace immediate precedents
ALT + E + S + T	Paste format only	SHIFT + F5	Find	ALT + T + U + D	Trace immediate dependents
ALT + W + S	(Un)split panes	SHIFT + F6	Previous pane	ALT + T + U + A	Remove tracing arrows
ALT + W + F	(Un)freeze windows	SHIFT + F8	Add to selection	CTRL + [Go to precedent cells
ALT + E + M	Move/ Copy a sheet	SHIFT + F9	Calculate active sheet	CTRL +]	Go to dependent cells
ALT + E + L	Delete worksheet	SHIFT + F10	Display shortcut menu	SHIFT + CTRL + {	Trace <u>all</u> precedents (indirect)
ALT + V + Z	Change view sizing	SHIFT + F11	New worksheet	SHIFT + CTRL + }	Trace <u>all</u> dependents (indirect)
ALT + O + C + A	Fit column width	CTRL + F3	Name a cell	F5 + Enter	Go back to original cell
ALT + O + H + R	Change tab name	CTRL + F4	Close window		
ALT + E + A	Clears cell	CTRL + F9	Minimize workbook		
ALT + F + V	Print preview	CTRL + F10	Maximize window		
ALT + F4	Close program	CTRL + F12	Open File		
ALT + F8	Macro box	Windows Flag + D	Minimize program		
ALT + F11	Visual basic editor	Windows Flag + E	Windows explorer		



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Frequently Used Formulas

Perpetuity Formula

Perpetuity = $\frac{\text{Cash Flow}_{t+1}}{\text{(Cost of Capital - Growth Rate)}}$

Discounting (PV) of a Cash Flow

$$DCF = \frac{Cash Flow_t}{(1+i)^{\Lambda(period t)}}$$

Cost of Equity

$$Cost(K)_{Equity} = R_f + \beta(Risk Premium_{Market})$$

Weighted Average Cost of Capital

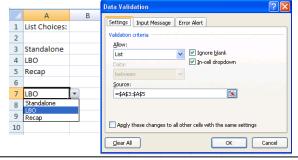
WACC =
$$K_{Debt}^*$$
 (1-Tax Rate) * D_{+F} + K_{Equity}^* E_{-F}

Compound Annual Growth Rate (CAGR)

Data Validation

Example: Create a list

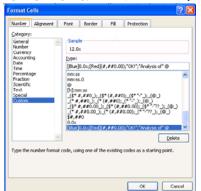
- 1. Enter data to be in list (A3:A5)
- 2. Go to cell to be validated (A7)
- 3. Type Alt d l (Data → Validation)
- 4. Click the Settings tab to specify "List"
- 5. Input "Source" info (=\$A\$3:\$A\$5) and hit "OK"



Customizing a Number Format

Custom formatting defines the format for positive numbers, negative numbers, zero values, and text, in that order: <Positive>;<Negative>;<Zero>;<Text>

Example: [Blue]0.0x;[Red](#,##0.00);"OK!";"Analysis of" @

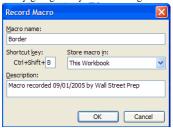


Enter or Result: Displayed: 12 If positive, then... 12.0x Showing multiples -1000 If negative, then... (1.000.00)Expenses O If zero, then... OKI **Balance Sheet Check** Analysis of Colgate Colgate If typed text, then... Model Heading

Recording a Macro

Example: Create a macro to insert borders at the bottom of cells

- 1. Place the cursor in the desired cell.
- 2. Hit Alt t m r (Tools \rightarrow Macros \rightarrow Record Macro)
- 3. Input macro name ('Border') and shortcut key (Ctrl Shift B). As soon as you hit 'OK', you are starting to record this macro.
- 4. When finished inserting a bottom border (using **Ctrl 1**) in the desired cell, hit **Alt t m r** to 'Stop Recording' the macro.
- 5. Try going to any cell or a range of cells and hitting Ctrl Shift B



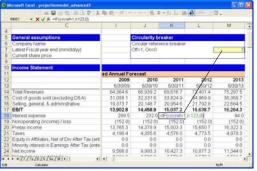
Data Table

Example: Create a data table that will output 2005 EPS based on a range of 2005 revenue growth and EBIT margin assumptions

- 1. Input a range of revenue growth rates in a column (as pictured)
- 2. Input a range of EBIT margins in a row (as pictured)
- 3. Reference 2005 EPS (the output variable) from model into the cell between the input row and input column as illustrated below
- 4. Highlight the matrix
- 5. Type Alt d t (\underline{D} ata $\rightarrow \underline{T}$ able)
- 6. Reference the row input variable from the model (2005 EBIT margin is the row input variable)
- 7. Reference the column input variable from the model (2005 revenue growth is the column input variable)
- 8. Hit Enter



Iterations and Circularity



Example: Inserting a circularity breaker toggle in a model; Insert an IF statement to modify the interest expense formula to incorporate the circularity breaker, such that if it is turned on, the interest expense becomes zero, breaking the circularity



Go to: Tools > Options (Alt t o) > Calculation tab

Ensure the 'Iteration' box is checked for 100 iterations as illustrated.