

# MathType<sup>5</sup>

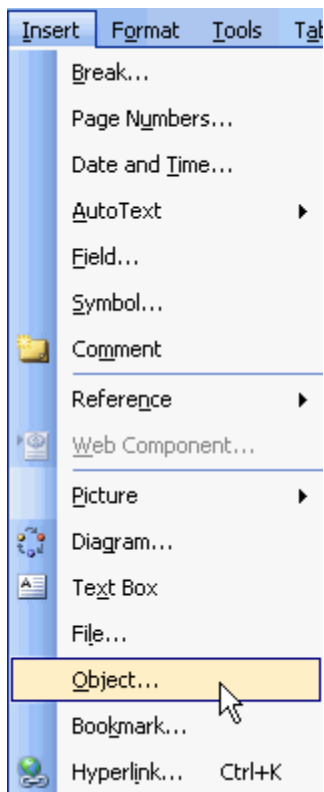


## MathType - An Equation Editor for Engineering, Mathematics, and Science

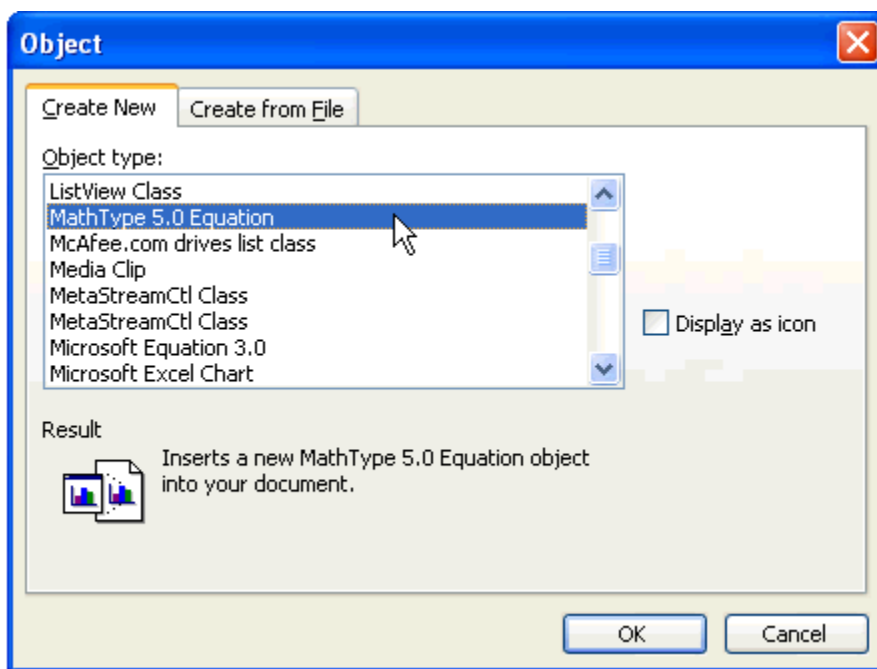
MathType, an equation editor that operates in MS Word, PowerPoint, and Excel, is available for download at <http://academic.pgcc.edu/instech/software> and obtaining the registration code. Click on Setup in the folder to install.

$$\text{document} = \int^{\text{MathType}} \text{equations}$$

On loading the software, how do you access it? Go to Insert on the menu bar and select Object...

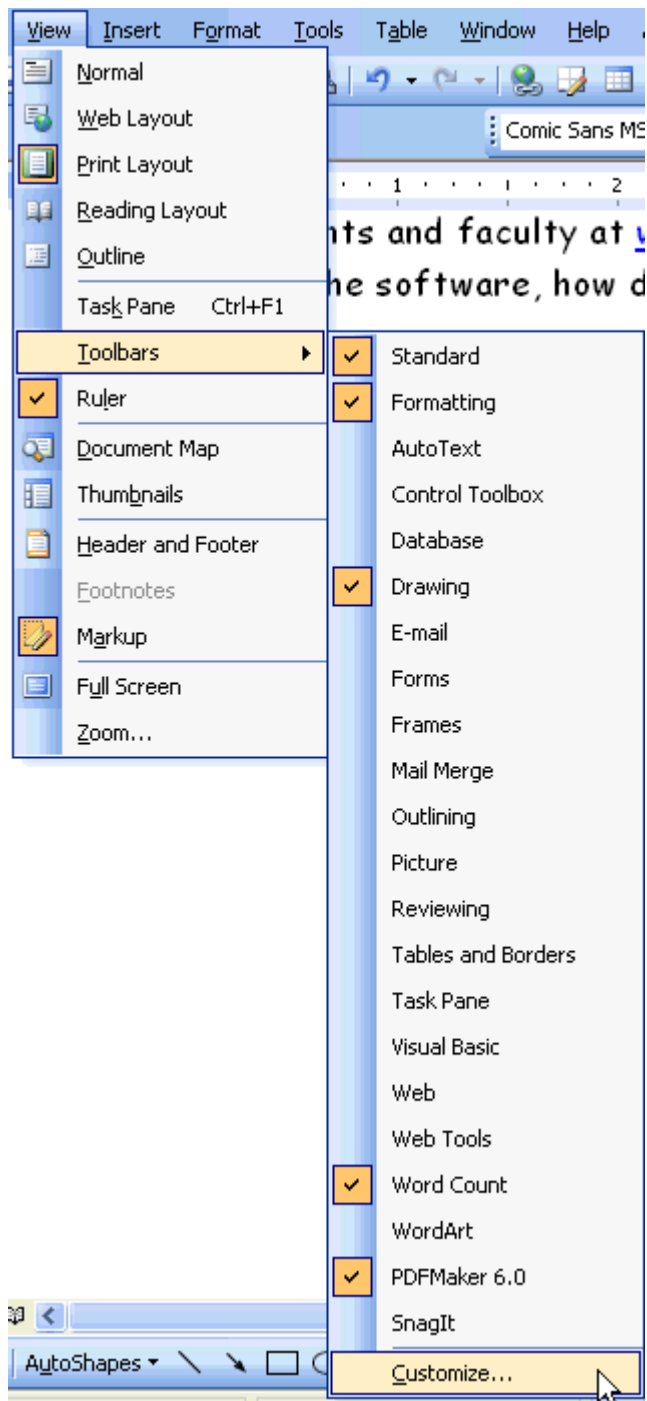


Then when the Object menu appears, scroll down the Object type list until you find **MathType 5.0 Equation**. Select it and click the OK button.



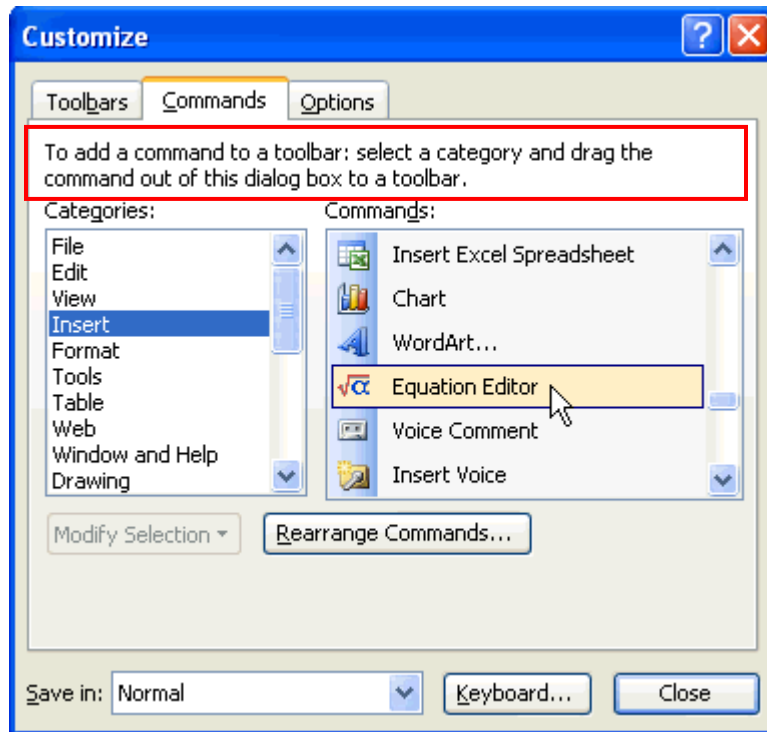
College computers in the labs will need to be accessed this way.

You can place MathType on your toolbar too. Go to View on the menu bar and select Toolbars and then Customize...

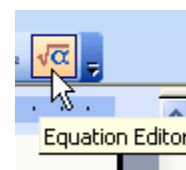


The Customize menu will appear. Click on the Commands tab and then select Insert. Scroll down the Commands list to find Equation Editor.

Follow the instructions encircled in red on the screen shot.

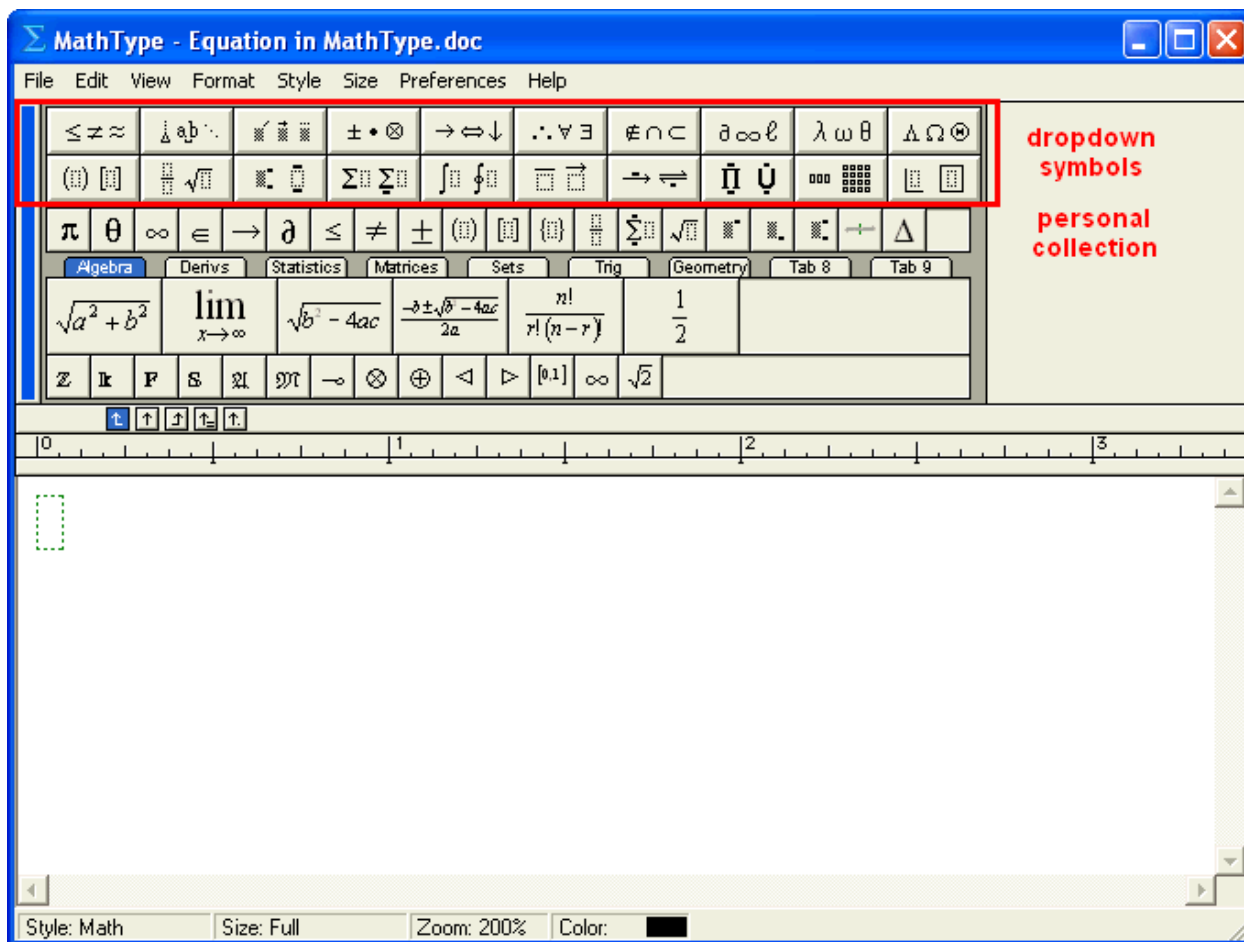


Now you should have a tool on your toolbar to access MathType.



MathType is an expanded version of the equation editor already in Word.

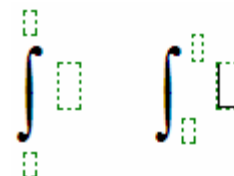
Now bring up MathType. This window will open on top of your Word document. The red box highlights the dropdown menus for the numerous types of symbols and templates.



For example, if you click the box with parentheses and brackets (  $\left( \right)$  ), you get a drop-down menu that lets you choose from various types. The small boxes inside the parentheses are where you fill in your content - equations, matrices, even other parentheses. These templates will expand with complicated expressions too.



The integrals menu will allow you to choose how you want to display upper and lower limits of integration, if at all. Compare the two formats to the right. You click in each box to fill in the limits and integrand.



The personal collection buttons allow you to set common symbols and templates that you constantly use. To set them up, you select the symbol or template. From the workspace, you highlight it and then drag it to the personal collection bar. To remove a button, right click on a button to select delete. Any symbols that are on the keyboard (=, +, <, >) are not repeated in MathType. You can select/deselect items under View on the menu bar.

Here is the ideal gas law:  $PV = nRT$  This is a graphic, click on it to see. MathType will insert equations inline with text. If you pdf documents, these graphics convert over with no problems. You position the graphic by right clicking on it and select Format Object... You can resize images by clicking and holding on the corner and dragging to enlarge. Font color can be changed by going to Format on the menu bar and then selecting Color.

$$PV = nRT$$

If you double click, it will open the MathType window and you can edit the equation.

Here are some items to try.

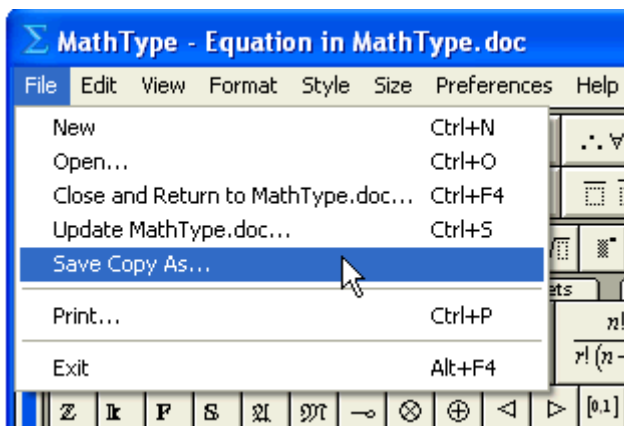
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad \begin{pmatrix} 3 & 5 \\ 3 & 1 \end{pmatrix}$$

$$\frac{PV_1}{T_1} = \frac{PV_2}{T_2} \quad a = \frac{dv}{dt} = \frac{d^2x}{dt^2}$$

$$\lim_{x \rightarrow \infty} \left( \frac{1}{x} \right) \quad \int_0^3 (x^2 + 2x - 5) dx$$

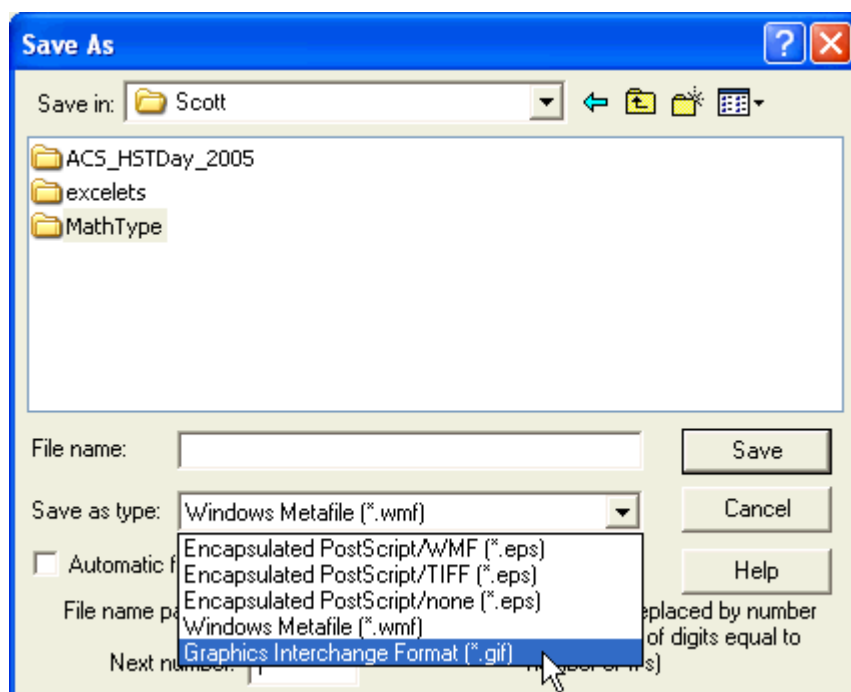


For web pages, you can save the MathType windows as image files, such as gif. Go to File and select Save Copy As...



Be aware that if you save it as a gif, it is no longer editable.

When the Save As menu appears, select your location to save and Save as type. The Graphic Interchange Format or gif is most suitable for web pages.



For a very thorough guide to MathType, see Using MathType at <http://www.dur.ac.uk/resources/its/info/guides/143MathType.pdf>.

MathType is a product from Design Science, Inc. [www.dessci.com](http://www.dessci.com).