
WebCT 4.x: WebEQ Equation Editor (Windows)

Competencies

After reading this document you will be able to:

- Employ the Equation Editor capabilities to create complex mathematical equations.

About WebEQ Equation Editor



Note Depending on administrator settings, this feature may not be available.

The WebEQ Equation Editor allows you to create, view, and edit complex mathematical equations. The equations are encoded in a mark-up language known as MathML (.mm1) which can be displayed on the Web. The WebEQ Equation Editor is available from *Discussions*, *Mail*, *Quiz*, and *Student Presentations*. You can:

- Create an equation in *Discussions*, *Mail*, *Quiz*, or *Student Presentations*.
- Forward a *Mail* or *Discussions* message containing an equation.
- Quote a *Mail* or *Discussions* message containing an equation.

Each equation is assigned an ID reference, such as {Equation:id=1, title=}.



Important To improve response time when using the WebEQ Equation Editor, we recommend that you download the WebEQ Equation Editor plug-in. For more information on the WebEQ Equation Editor, go to the Design Science, Inc. website.

Creating equations

You can create an equation and insert it into the following: a *Discussions* message, a *Mail* message, your answer to a *Quiz* question, or a file created in *Student Presentations*. On the WebCT tool screen, the equation is displayed as its ID reference.

In the WebCT tool, click **Equation editor**. The *Equation Editor* screen appears.

In the *Title* text box, enter a title for the equation.

Create an equation by clicking the icons on the toolbar and entering numerals and operators from your keyboard.



Important To advance the cursor, use the Tab key or your mouse. Do not use the spacebar.

Click **Insert**. The equation is created and the WebCT tool screen appears, displaying the equation as its ID reference.

The following is an explanation of the Equation Editor icons:

Icon	Explanation	Icon	Explanation
	Division or fractions		Integral
	Square root		2x2 Matrix
	General root		Parentheses
	Subscript		Cut
	Superscript		Undo last action
	Sub Superscript		Copy
	Underscript		Paste
	Overscript		Zoom in
	Underoverscript		Zoom out
	Sum Notation		Insert Special Characters
	Product Notation		WebEQ Help

Editing equations

You can edit a previously created equation if you are:

- Forwarding a *Mail* or *Discussions* message containing an equation.
- Quoting a *Mail* or *Discussions* message containing an equation.
- Editing your answer to a *Quiz* question containing an equation.
- Editing a file containing an equation in *Student Presentations*.

Each time you edit an equation, the Equation Editor creates a new equation and assigns it an ID reference, such as {Equation:id=2, title=}. On the WebCT tool screen, the equation is displayed as its ID reference.

- 1 From the *Equation* drop-down list, select the ID reference of the equation you want to edit, such as, Edit equation:[title](id=1)
- 2 Click **Equation editor**. The *Equation Editor* screen appears, displaying the equation.
- 3 In the *Title* text box, enter a new title for the equation.
- 4 Edit the equation by clicking the icons on the toolbar and entering numerals and operators from your keyboard.



Important To advance the cursor, use the **Tab** key or your mouse. Do not use the spacebar.

- 5 When you have finished editing the equation, click **Insert**. The WebCT tool screen appears, displaying the ID references for both the original and edited equations.
- 6 If you want to display the edited equation only, you must delete the original equation:
 - From the WebCT tool screen, locate and select the ID reference for the original equation.
 - On your keyboard, press **Delete**. The original equation is deleted.

Deleting equations

You can delete an existing equation if you are:

- Forwarding a *Mail* or *Discussions* message containing an equation.
- Quoting a *Mail* or *Discussions* message containing an equation.
- Editing your answer to a *Quiz* question containing an equation.
- Editing a file containing an equation in *Student Presentations*.

- 1 In the WebCT content, locate and select the ID reference for the equation, such as, {Equation:id=1, title=}
- 2 On your keyboard, press **Delete**. The equation is deleted.

Viewing equations

- 1 From the *Equation* drop-down list, select the ID reference of the equation you want to view, such as, Edit equation:[title] (id=1)

- 2 Click **Equation editor**. The *Equation Editor* screen appears, displaying the equation.



Note If the equation is in a *Mail* or *Discussions* message, you can view the equation by clicking **Preview** from the *Mail* or *Discussions* screen.

Changing the equation font size

You can change the font size of an equation. Each time you want to change the font size of an equation, the Equation Editor assigns it a new ID reference.

- 1 From the *Equation* drop-down list, select the ID reference of the equation you want to edit, such as, Edit equation: [title] (id=1)
- 2 Click **Equation editor**. The *Equation Editor* screen appears, displaying the equation.
- 3 From the *Font size* drop-down list, select the new font size.
- 4 Click **Insert**. The WebCT tool screen appears, displaying the ID references for both the original and edited equations.
- 5 If you want to display only the equation in the new font size, delete the original equation:
 - From the WebCT tool screen, locate and select the ID reference for the original equation.
 - On your keyboard, press **Delete**. The original equation is deleted.

Changing the Equation Editor size

- 1 Click **Equation editor**. The *Equation Editor* screen appears.
- 2 Click either **Increase editor size** or **Decrease editor size**.