

## Competencies

After reading this document, you will be able to:

- ◆ Create, edit and insert equations using the WebEQ Equation Editor.

## WebEQ Equation Editor

The WebEQ Equation Editor, a third-party tool, has been integrated into WebCT so instructors and students can easily create, save, and view complex equations within WebCT. It consists of an Equation Editor and an Equation Viewer. The Equation Editor enables users to create and edit mathematical equations graphically, using symbols not previously available on the keyboard. The equations are then stored as MathML, which is mark-up language for encoding the structure of mathematical expressions so that they can be shared over the Web. MathML files can be saved in the File Manager from the WebEQ Equation Editor or uploaded to the File Manager from any local drive and imported to the WebEQ Equation Editor for editing. The Equation Viewer enables MathML to be displayed in any browser.

### To Create and Insert Equations:

The *WebEQ Equation Editor's* variety of tools can be used to create and insert MathML equations into mail and discussion messages, content modules and into assessment questions (not answer choices).

- 1 From the *Insert equation* drop-down list, select *New*, and click the **Go** icon.
- 2 Enter a title. When an equation is saved, the title is used as the file name in the *My Files* area of Content Manager.
- 3 The following options are available:
  - a To change the font size of the characters in an equation, select a number from the *Font size* drop-down list.
  - b To increase the size of the edit area, click **Enlarge Editor**.
- 4 Create an equation by using templates, keyboard characters, and symbols. Templates are blank equation elements with empty slots (squares) for entering keyboard characters or symbols.



**Note** Do not enter spaces between templates, keyboard characters, or symbols, because spaces appear as boxes when displayed.

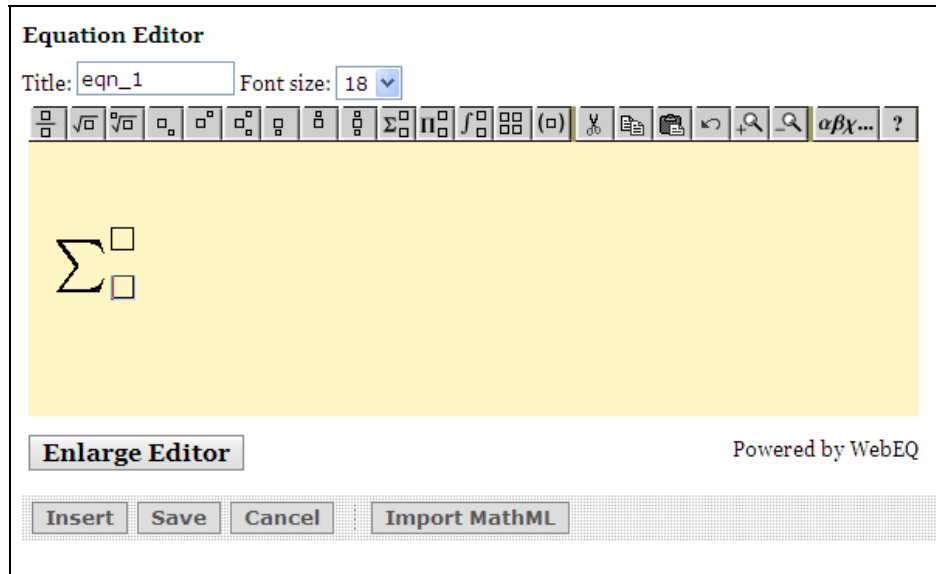


Figure 1: Equation Editor - Equation Editor window

- ◆ To insert templates outside template slots:
  - Place the cursor where the equation is to be inserted into the template by clicking the edit area in the appropriate location.
  - From the toolbar, click the icon that represents the template to insert.
- ◆ To insert templates in template slots:
  - Click the template slot in which to insert the templates.
  - From the toolbar, click the icon that represents the template to insert.
- ◆ To enter keyboard characters outside template slots:
  - Place the cursor where the keyboard characters are to be inserted by clicking the edit area in the appropriate location.
  - Using the keyboard, enter the characters.
- ◆ To enter keyboard characters inside template slots:
  - Click the template slot in which to enter the keyboard characters.
  - Using the keyboard, enter the characters.
- ◆ To insert symbols outside template slots:
  - Place the cursor where the symbol is to be inserted by clicking the edit area in the appropriate location.
  - From the toolbar, click the *Symbol Palette* icon.
  - Click the symbols to insert.

- ◆ To insert symbols inside template slots:
  - Click the template slot in which to insert the symbols.
  - From the toolbar, click the *Symbol Palette* icon.
  - Click the symbols to insert.
- 1 To save the equation as a MathML file in the *My Files* area of the Content Manager or File Manager tool, click **Save**.
- 2 Click **Insert**. The equation is assigned an id and is inserted.



**Note** If the *HTML Creator* is turned on, the equation is inserted where the cursor was placed. If the *HTML Creator* is turned off, the equation is inserted as the last item in the text box.