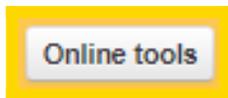


03.D.7 How to create Math CBT Assessments in eDoctrina

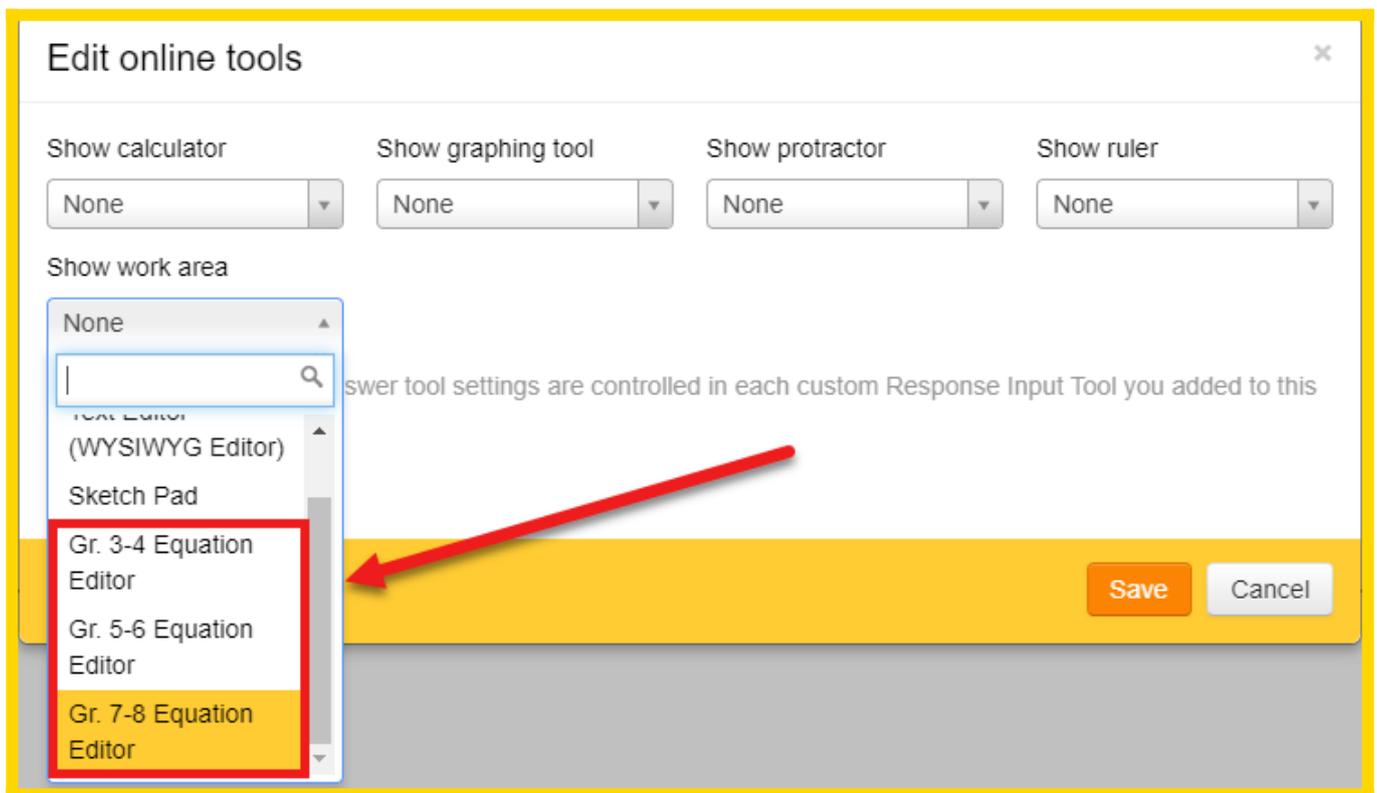
There are a variety of features in the eDoctrina Assessment Editor that support building online assessments to mirror New York and other state Computer Based Testing (CBT) assessments.

Grade Specific Equation Editors

The newest and most relevant features are the grade-specific equation editors which can be attached to any question through the Online Tools button.



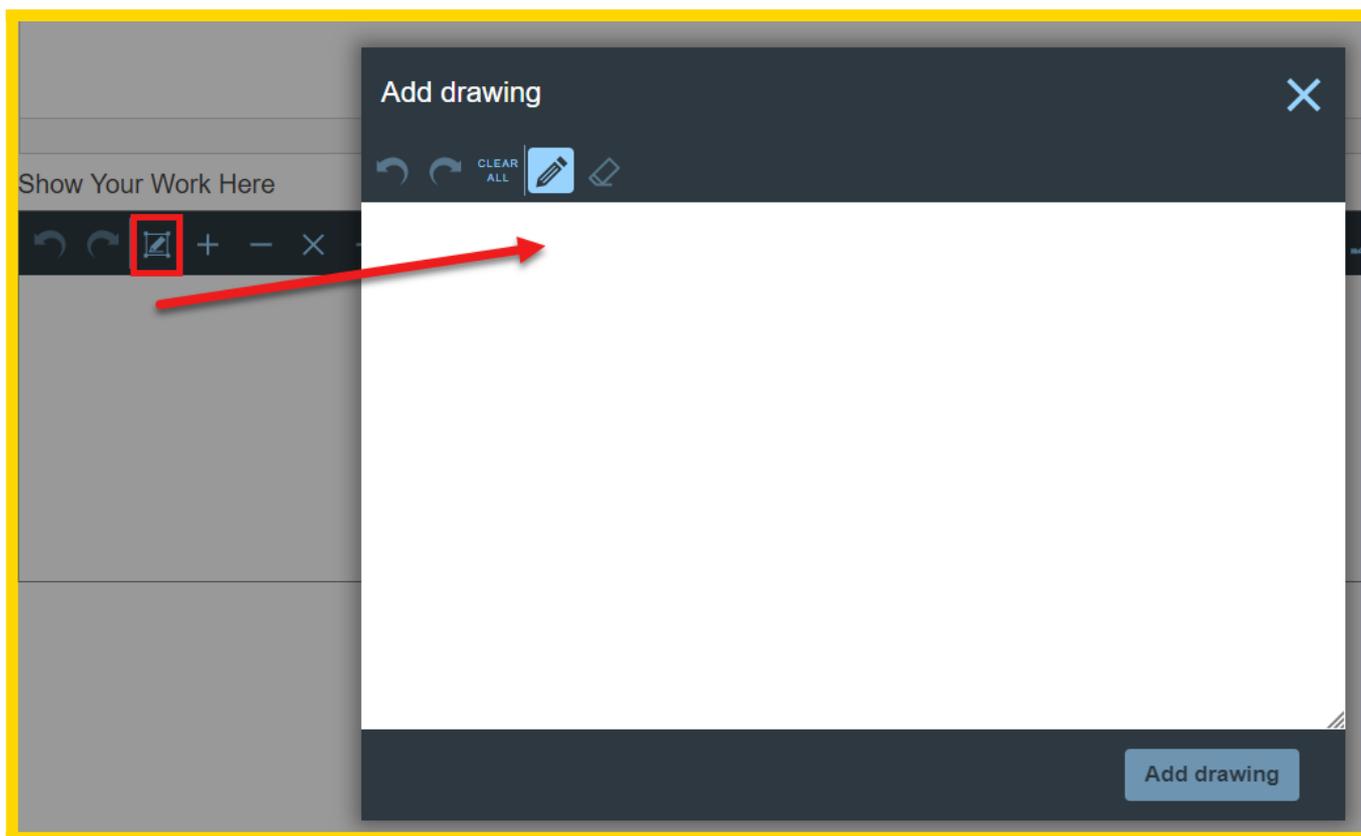
Equation editors for grades 3-4, 5-6, and 7-8 as well as other online assessment tools are available.



Here is an example of the Gr. 5-6 Equation Editor from the student view:



The drawing feature within the grade-specific equation editor includes the option for students to attached "drawings" to their work:



This drawing feature has been designed to allow students to add up to 5 separate drawings. After the 5th drawing has been added, the drawing option will be greyed out so it cannot be selected.

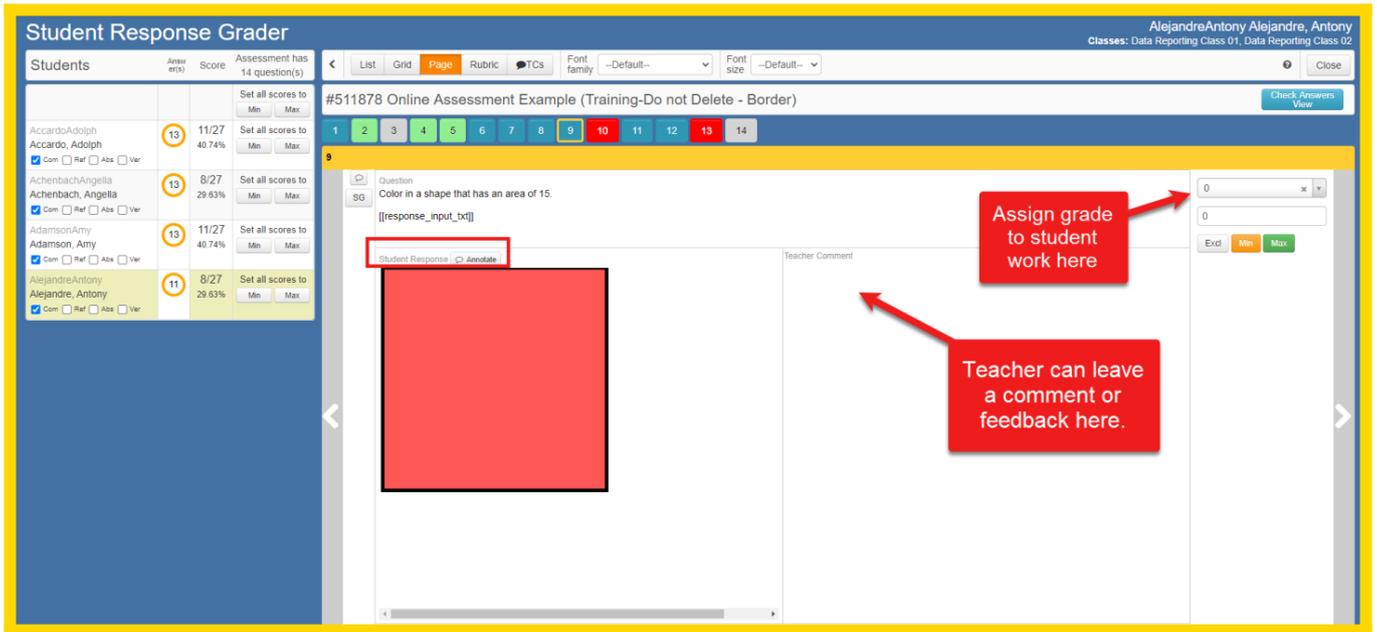


Online Tools

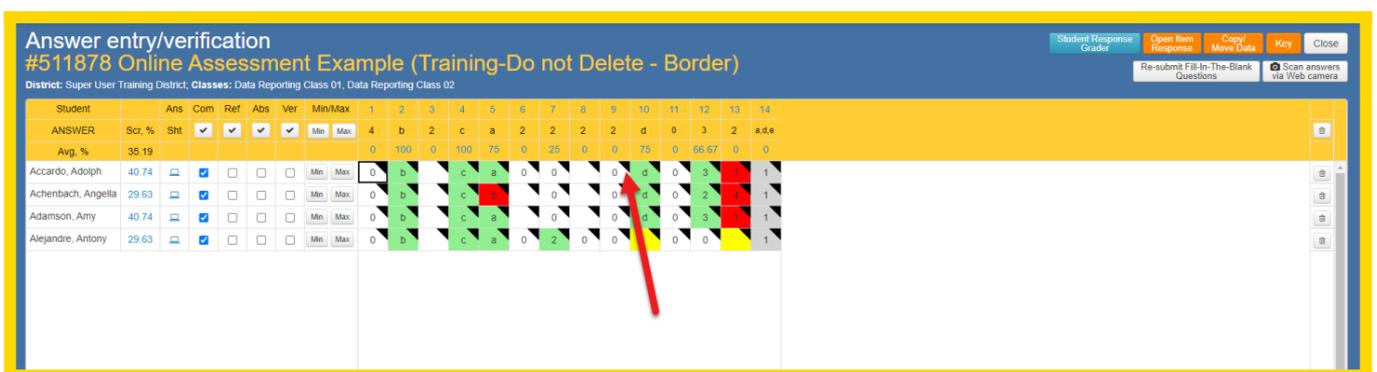
There is also a sketchpad tool located in this drop down menu that users can insert an image into. Students taking an online assessment will be able to draw on the image.

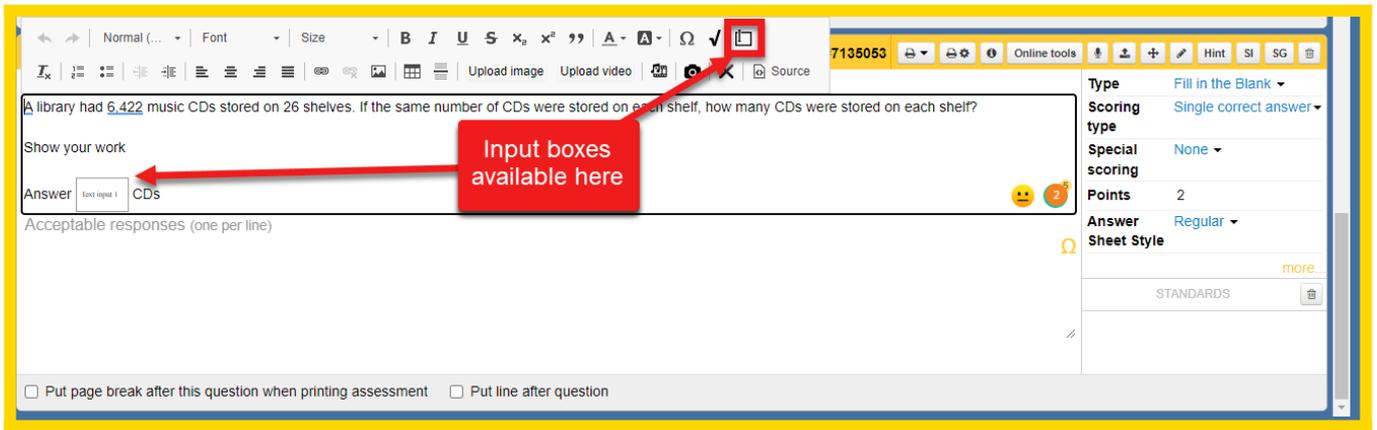
Sketchpad images (and other short student responses) will be saved and accessible to grade on the Teacher Completed test(s) (GRADE button on the Teacher Dashboard) and Answer entry/verification screens (CHECK button on the Teacher Dashboard) in the following locations:

- **GRADE** - Teacher completed test(s)



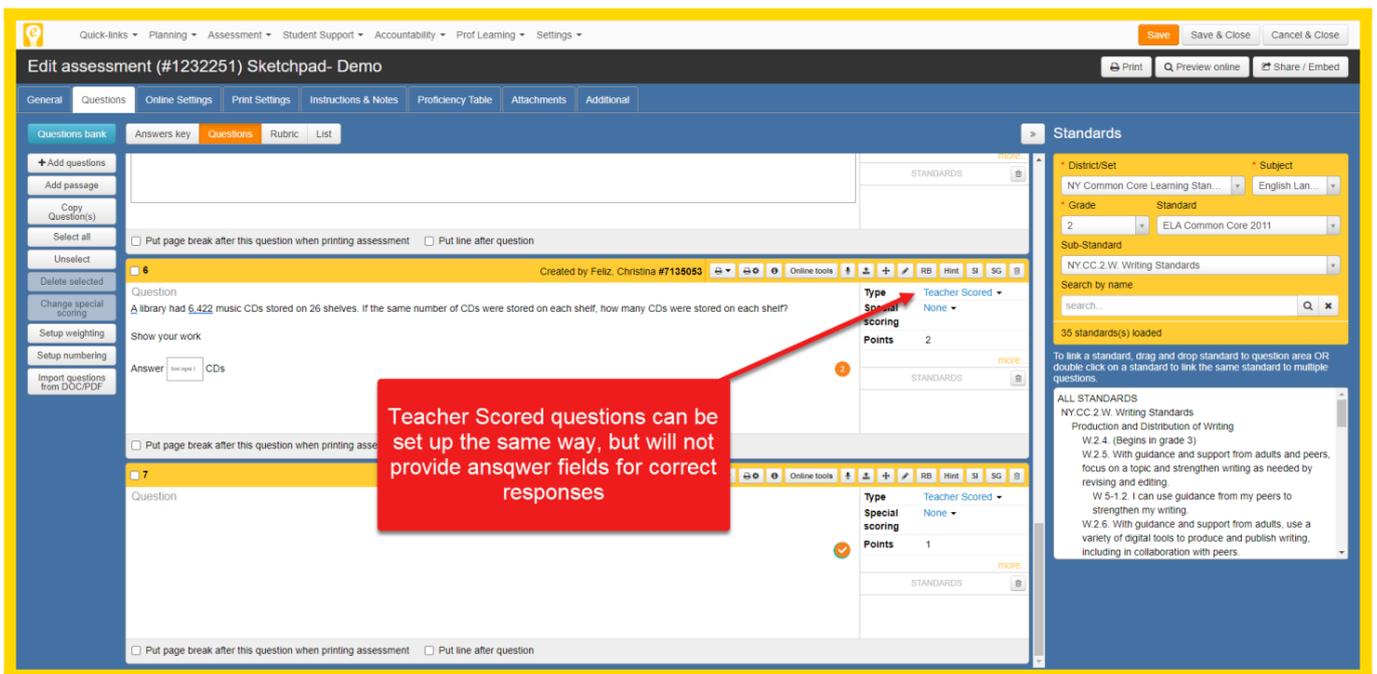
- **CHECK** - Answer entry/verification



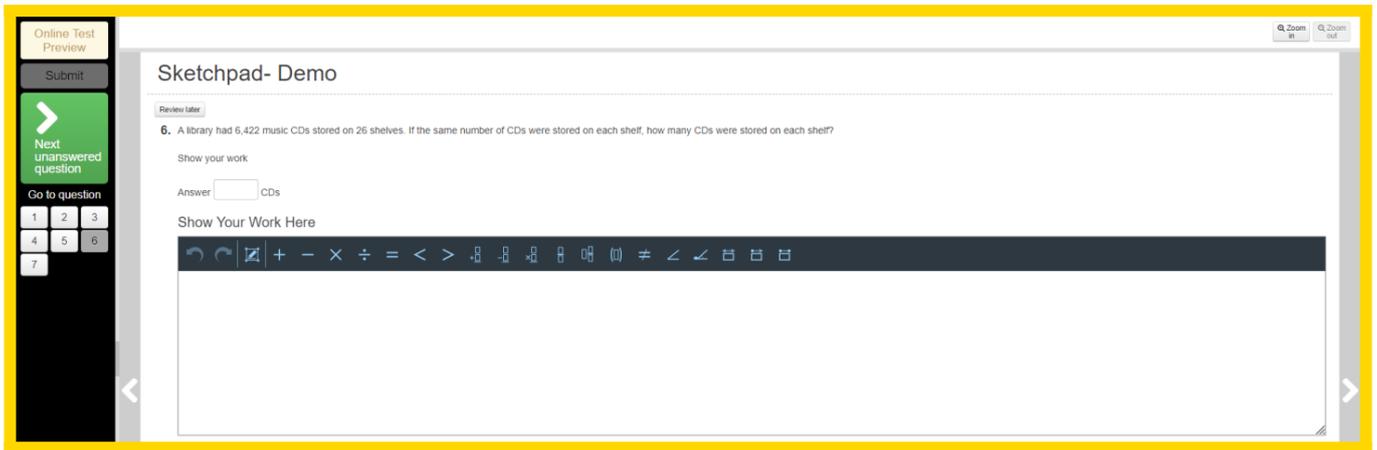


NOTE: That in the example above the correct response field can be left blank in order to manually grade student work. The numerical response will be scored by eDoctrina according to the correct responses listed. This option works well with the Scoring type "Multiple correct answers, partial scoring", so that the autograde feature is engaged.

A Teacher Scored question type can be used if the intention is to manually grade student responses for similar question formats. See below for an example of this style of question:

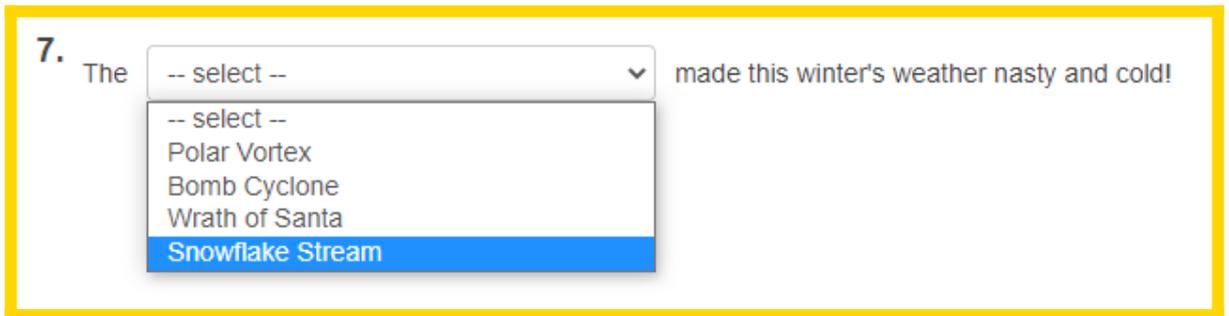


Either of these options will result in a question that looks like the following for a student taking an online assessment (if the Equation Editor has also been added to the question, using Online Tools):



The following text box short cuts will need to be entered manually into the question text field for multiple choice question types:

- `[[choices]]` - to be used with multiple choice questions only, places answer choices in a drop down menu



- `[[choices_radio]]` - to be used with multiple choice questions only, places answer choices in a horizontal row with radio buttons instead of letter/number



- `[[multiple_choices]]` - to be used with multiple choice questions with a multiple correct answers scoring type only, place answer choices in a vertical column with checkboxes



Want more information on building online questions for students? Click on this [additional help guide](#).