

Question Editor

Last Modified on 05/07/2024 7:28 am EDT

The Question Editor interface allows you to build questions. As an author, you can access it by clicking on the Create button in the AMS home screen.

{snippet.TocArticleSW5}}

Hide All Answers

Getting Started—Inserting Metadata

1. To access the Question Editor as an author, click on the Create button in the AMS home screen.

NORTON SMARTWORK

You are logged in as **Bolster, Ruth (Author)** [Back to Admin](#)

Authoring Management System

Show: All Taxonomy Save As

My Filters: Choose: Manage Filters

My Questions Review Questions All Questions

Search

Taxonomy	W/Author	W/Reviewer	W/Editor	W/Copyeditor	QA Testing	Published	Demoted	Total
▶ QA Testing	7	0	0	0	0	0	0	7
▶ Training	16	0	0	4	0	0	0	20

Item ID	Status	Title	Question Number	Taxonomy	Action
No data available in table					

Edit Duplicate Preview Delete

Export to MS Word Export to MS Excel Create

Click here to access the Question Editor

Advanced Filters

☐ Author

☐ Chapter

☐ Timestamp

☐ Learning objective

☐ Version

☐ Difficulty

☐ Section

☐ Bloom's type

☐ Series

2. Fill out the Question Metadata. **The Metadata tells the system how to categorize the question.** You must fill out this section in order to proceed to the Question Editor.

Edit Question Question List Preview Save

Question Metadata *required HIDE

Title* ⓘ

Book*

Chapter*

Section/Ebook Reference*

Question Number ⓘ

Bloom's-Type Domain*

Learning Objective*

Difficulty*

Series

Misc

Comments

Continue

- Give the question a title. There is no character limit to the title you can give your question; however, check with your editor for best practices. This is a required field.
- Under "Book," choose the book or "taxonomy" associated with your question from the drop down menu. The drop down menu will auto-populate with all of the projects tied to your account. This is a required field.

Edit Question Question List Preview Save

Question Metadata *required HIDE

Title* ⓘ

Book*

Chapter*

Section/Ebook Reference*

Question Number ⓘ

Bloom's-Type Domain*

Learning Objective*

Difficulty*

Series

Misc

Comments

Continue

Choose the book, or "taxonomy," you are working on from the drop down menu. The drop down menu will autopopulate with all of the projects tied to your account.

- Under "Chapter" select the book chapter associated with the question you are creating

from the drop down menu. This is a required field.

Edit Question Question List Preview Save

Question Metadata *required HIDE

Title* Define the Habitable Zone

Comments

Book* Understanding Our Universe, 2e

Chapter*

- Chapter 1: Thinking Like An Astronomer
- Chapter 2: Patterns in the Sky-Motions of Earth and the Moon
- Chapter 3: Laws of Motion
- Chapter 4: Light and Telescopes
- Chapter 5: The Formation of Stars and Planets
- Chapter 6: Terrestrial Worlds in the Inner Solar System
- Chapter 7: Atmospheres of Venus, Earth, and Mars
- Chapter 8: The Giant Planets
- Chapter 9: Small Bodies of the Solar System
- Chapter 10: Measuring the Stars
- Chapter 11: Our Star: The Sun
- Chapter 12: Evolution of Low-Mass Stars
- Chapter 13: Evolution of High-Mass Stars
- Chapter 14: Measuring Galaxies
- Chapter 15: Our Galaxy: The Milky Way
- Chapter 16: The Evolution of the Universe
- Chapter 17: Formation of Structure
- Chapter 18: Life in the Universe

Select the chapter you want your question to appear in from the drop down menu

Continue

- d. Select the chapter section associated with your question from the drop down menu. The system will use this data to link your question to the appropriate section in the ebook, so that students can re-read the text if they have trouble answering the question. This is a required field.

Question Metadata *required HIDE

Title* Define the Habitable Zone

Comments

Book* Understanding Our Universe, 2e

Chapter*

Chapter 18: Life in the Universe

- 18.1 Life on Earth Began Early and Evolved Over Time
- 18.2 Life beyond Earth Is Possible
- 18.3 Scientists Search for Signs of Intelligent Life
- 18.4 The Fate of Life on Earth
- 18.5 Reading Astronomy News
- 18.6 Exploration: Fermi Problems and the Drake Equation

Select the ebook section associated with your question.

Continue

- e. Under "Question Number," type in the question number associated with your question.

This is not a required field; however, please check with your editor for best practices.

- f. Under “Bloom’s Type Domain,” select the appropriate Bloom’s Taxonomy from the drop down menu. If you have questions about this, please check with your editor. This is a required field.
- g. Under “Learning Objective,” select the appropriate learning objective for your question from the drop down menu. This is a required field. If you have questions about this, please check with your editor.
- h. Under “Difficulty,” please select the appropriate difficulty level for your question from the drop down menu. If you have questions about this, please check with your editor. This is a required field.
- i. Under “Series,” please select the appropriate series tag for your question. Not all questions have series tags. If you have questions about this, please talk to your editor. This is not a required field.

The screenshot shows the 'Question Metadata' form. The 'Title' field is 'Define the Habitable Zone'. The 'Comments' section has a red text box that says 'Select the series tag from the drop down menu.' with a red arrow pointing to the 'Series' dropdown menu. The 'Series' dropdown menu is open, showing options: EX, RAN, IMG, VID, SST, PS, and ART. The 'Continue' button is visible at the bottom.

Field	Value
Title*	Define the Habitable Zone
Book*	Understanding Our Universe, 2e
Chapter*	Chapter 18: Life in the Universe
Section/Ebook Reference*	18.1 Life on Earth Began Early and Evolved Over Time
Question Number	18.01
Bloom's-Type Domain*	Understanding
Learning Objective*	Define the bold-faced vocabulary terms within the chapter.
Difficulty*	Easy
Series	EX

- j. Under “Misc,” type any other metadata your editor would like you to include in your question. This is not a required field; check with your editor for best practices.
 - k. In the “Comments” section, you may leave any internal comments about the question for your editor. Students and professors will not be able to see any comments you leave here.
3. Click on the Continue Button to proceed to the Question Editor. While in the Question Editor, you may edit all of the metadata with the exception of the “Book” field.

Edit Question Question List Preview Save

MISC

☐ **Algorithm Editor**

☐ **Introduction**

Part 1 0 points

Question Text*

Hint Text

Part Solution*

Summary Solution

Add Part

In addition to the **Metadata** field, the Question Editor consists of the **Algorithm Editor**, an **Introduction** section, a **Points** section, a **Question Text** section, a **Hint Text** section, a **Part Solution** section, and a **Summary Solution** section. It also contains an **Add Part button** that allows you to add another Question Text, Hint Text, and Part Solution section to your question. You would use this if you were creating a multi-part question.

Furthermore, the Question Editor also contains an **Question List button** which allows you to exit the Question Editor and return to the AMS home screen; a **Preview button**, which allows you to preview your question as a student; and a **Save button**, which allows you to save your question.

Overview of the Sections in the Question Editor

The Question Editor contains various sections that you can use to create a question. These questions can consist of one or more parts. These sections are:

- **The Algorithm Editor**, which you can use to create algorithmic variables to use in your question.
- **The Introduction section**, which you can use to introduce your question with text or multimedia. If your question contains multiple parts, the Introduction section is a useful place

to put information that students will use when solving each of the question's parts.

- **The Points section**, which allows you to define the number of points each part of your question is worth.
- **The Question Text section**, in which you write the question stem and insert question modules.
- **The Hint Text section**, in which you can write the hint students will see in your question.
- **The Part Solution section**, in which you can write the solution students will see if they exhaust their attempts on the question, or give up.
- **The Summary Solution section**, which is intended for multiple-part questions. You can use this field to write one solution that explains the entire question.

Furthermore, the Question Editor also contains an **Add Part** button, which you can use if you are creating a question with multiple parts (ex. Part a, part b, part c, etc.). The **Add Part** button adds additional sections for Points, Question Text, Hint Text, and Part Solution.

Algorithm Editor

The Algorithm Editor, or the Algorithmic Variable tool, allows authors to create, edit, and insert algorithmic variables ("algos") into Smartwork5 questions in order to create dynamically generated content. In Smartwork5, an algorithmic variable is a set of values where one value from the variable is randomly selected for each view of the problem. Because Algos give students a slightly different problem based on the values loaded for their view, this tool is often used to minimize student cheating.

The Algorithm Editor is located just under the Question Metadata field, and can be expanded by checking the box next to the words "Algorithm Editor." **Please note that unchecking the box does not delete the algorithms you created—it only collapses the Algorithm Editor.**

In the student player, students will see the introduction just above the question. Editors may ask you to write an introduction if your question contains multiple modules, or if your question is based on a piece of multimedia that students must evaluate, such as a video or art. If your question contains multiple parts, the Introduction section is also a useful place to put information that students will use when solving each of the question's parts.

Question Detail

CASE HISTORY: THE THIRD PANDEMIC

Student View

REFRESH PREVIEW

Question (2 points)

This is where the introduction will appear

Read the case history and then answer the questions.

The Third Pandemic

In 1884, Yong Ding was a 38-year-old male in Canton, in southern China. Life was hard, but Yong Ding, a cook, still managed to support his family. As he walked to his restaurant each day, he barely noticed the small bands of rats scurrying through the streets. Disease was rampant that year; victims of the *shuyi* (rat epidemic) were stacked like firewood in the streets, five bodies high in places, waiting to be taken for burial. Yong knew that the disease started as a swollen gland in the armpit and often had a black appearance (now called a bubo). He checked himself daily for these swellings and, seeing none, always felt relief. Then, one morning, he found one. Within days, Yong Ding began coughing blood as the agent (a mystery at the time) spread through his bloodstream to his lungs. Once that happened, Yong Ding knew death was not far behind. More than 60,000 people died this way in what was to be the start of the third pandemic of bubonic plague. Yong Ding's body was one of many lining the street that year.

> Solution

1st attempt

Text Editor

The Introduction section contains an editable text field, in which you write your introduction, as well as a Text Editor, which you use can use to format your introduction and insert multimedia.

The Media Palette allows you to insert multimedia as into your introduction.



From left to right, the Media Palette allows you to do the following:

- Insert static chemical equations
- Insert static symbolic (math) equations
- Insert algorithmic variables
- Insert image files
- Insert music files
- Insert video files
- Insert hyperlinks
- Remove the hyperlinks

The Chem Pad Button allows you to insert a static molecular drawing into your introduction.



The Text Formatting Palette allows you to format text, as well as add special characters.



From left to right, the Text Formatting Palette allows you to do the following:

- Bold text
- Italicize text
- Underline text
- Insert subscripts
- Insert superscripts
- Insert math expressions **This tool is being phased out. Please use the Symbolic Equation tool to create math equations.
- Insert special characters
- Remove any formatting applied to the text

Furthermore, the Feedback Formatting Palette allows you to do the following:



- Insert tables
- Insert line breaks
- Edit text in full screen mode

Question Text Section

The Question Text section is located underneath the Introduction section. When composing a question, the Question Text section is where you write the question stem, as well as the interactive module students will use to solve the question.

Unlike the Introduction section, it is a required field.

Part 1

0 points

Points Section

Question Text*

Module Palette

Text Editor

Editable Text Field

The Question Text section contains an editable text field, and a Text Editor that has a modified

Media Palette, sans the Static Chemical Equation button and the Algorithmic Variable button. Instead, the Chemical Equation button and the Algorithmic Variable button appear in the Module Palette, which we will talk about in-depth below.

began coughing blood as the agent (a mystery at the time) spread through his bloodstream to his lungs. Once that happened, Yong Ding knew death was not far behind. More than 60,000 people died this way in what was to be the start of the third pandemic of bubonic plague. Yong Ding's body was one of many lining the street that year.

> **Solution**

▼ **1st attempt** **Student View**

Part 1 (1 point)

This is where the question text will appear

More than 60,000 people died from the third pandemic of bubonic plague. Where does the name "bubonic" come from?

Choose one:

- ☐ A. The type of rat that carried this disease
- ☐ B. The places where the bodies were piled
- ☐ C. The swollen lymph node
- ☐ D. The location of the pandemic in China

Multiple Choice module

SUBMIT ANSWER

Modules

The Module Palette allows you to insert various gradable modules into the question. Students will use these modules to answer the question in the question stem.

You may include any number or combination of modules within a single Question field. In this case, students are able to earn partial credit if they answer some but not all of the modules correctly. Check with your editor for best practices.



From left to right, the Module Palette allows you to insert the following modules into the Question Text section:

- Drop Down Module
- Multiple-Choice Module
- Multiple-Select Module
- Numeric Entry Module
- Short Answer Module
- Algorithmic Variable
- Graphing Module
- Molecular Drawing Module (both gradable and static)
- Chemical Equation Module (both gradable and static)

- Symbolic (Math) Equation Module (both gradable and static)
- Labeling Module
- Ranking Module
- Sorting Module

To delete a module, place your text cursor next to it and use either the delete or backspace key.

For an in-depth look at how each module functions, and how to build questions around each module, please refer to the existing documentation for that module provided to you by your editor.

Points

The Points section is located just above the Question Text Editor. You can use this section to define the number of points you want your question to be worth.

Part 1

0 points

Define the number of points you want your question to be worth here

Question Text*

Rich text editor toolbar with icons for text formatting (bold, italic, underline, strikethrough), alignment, list, link, unlink, image, video, audio, and other media elements.

The point value of a question automatically increases by 1 each time you add a module to the Question Text section. So, if you were to add one module to the Question Text section, the Points section will be updated to 1. If you add two modules to the Question Text section, the Points section will be 2, and so on.

When a single Part has multiple modules, students will earn partial credit if they answer some but not all of the modules correctly.

Part 1 1 points

Question Text*

More than 60,000 people died from the third pandemic of bubonic plague. Where does the name "bubonic" come from?

Choose one:

- ☐ A. The type of rat that carried this disease
- ☐ B. The swollen lymph node
- ☐ C. The location of the pandemic in China
- ☐ D. The places where the bodies were piled

There is only one module in the Question Text section, so the points value for this question defaults to 1.

Furthermore, you can manually override the number of points a question is worth by clicking on the editable text field in the Points section and typing in the number of points you want it to be worth.

Please keep in mind that when setting the point value of a question, instructors are able to adjust the total point value of the question in their own assignments.

The Points Section also contains a little trash can. If your question contains multiple parts, you can click on the trash can to permanently delete the Question Text section, the Points section, the Hint Section, and the Part Solution section associated with one of those parts.

Hint Text Section

The Hint Text section is located directly underneath the Question Text section. Students can view the Hint as they begin working on the problem. It's initially hidden, but students can expand it by clicking on a "Hint" icon.

Instructors have the ability to hide Hints in their assignments, so not all students will see them. If there's explanatory information that the student will need in order to answer the question (such as a key for a graph or table), it should be placed in the Introduction or Question field.

☒ **Hint Text** Clicking the box expands the Hint Text section

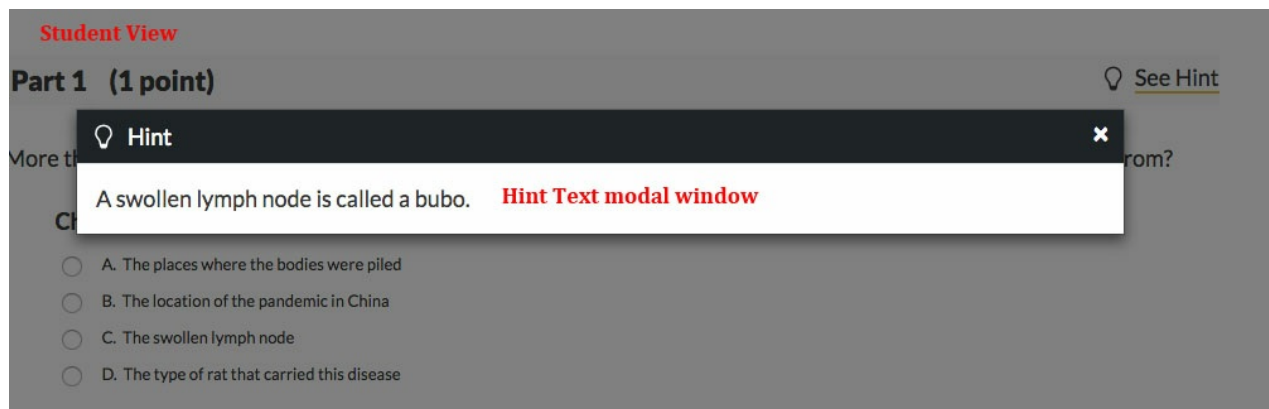
Editable Text Field

Like the Introduction section, the Hint Text section expands when you click the check box next to the words "Hint Text." Unchecking the box does not delete the hint; instead, it just collapses the section.

The Text Editor in the Hint Text section has all of the same buttons as the Text Editor in the

Introduction section. It also includes a button that allows you to create a static graph, which is located next to the Static Molecular Drawing button.

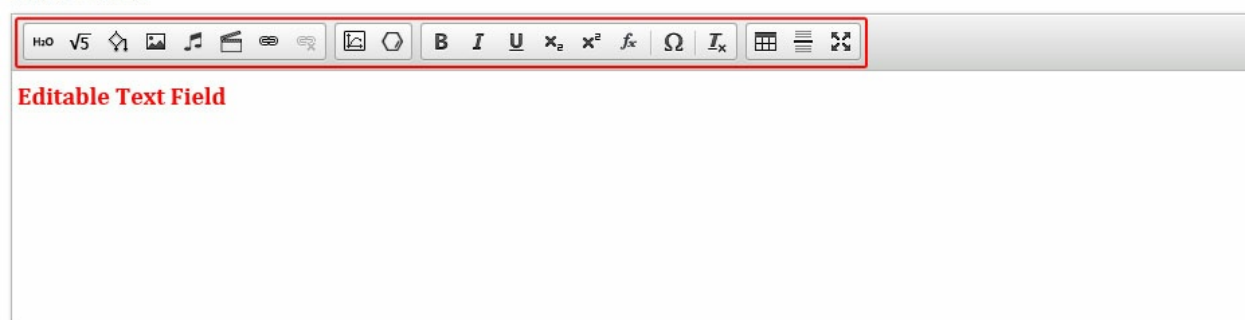
In student view, the hint appears in a modal window, accessible if you click on the "See Hint" link.



Part Solution Section

The Part Solution section is located directly underneath the Hint Text section. This is the section you use to write the solution to the problem that students will see when they finish a question.

Part Solution*



The Part Solution is meant to explain the solution to the question in the Question Text section that immediately precedes it in the Question Editor. In the event that you are creating a multi-part question, there is an additional **Summary Solution** section that you can use to summarize all of the solution sections for all of the parts of the question.

In student view, the Part Solution will appear in the "Explanation" modal window. Students will be directed to this modal window when they finish a question, either by getting it right, giving up, or exhausting their allowed attempts on the problem. Note that a student reading the Solution text may or may not have answered the question correctly. If a question has multiple parts, all Part Solutions will appear in the Explanation modal window.

Although it's possible to write questions without any Solution content (either Part or Summary), it will generally be expected that a Solution is present. Check with your editor if you're not sure about their expectations.

Like the Hint Text section, the Text Editor in the Part Solution section has all of the same buttons as the Text Editor in the Introduction section. However, it also includes a button that allows you to create a static graph, which is located next to the Static Molecular Drawing button.

plague. Yong Ding's body was one of many lining the street that year.

Solution

Solution

Explanation	Part 1	Part 2
<p>The Part Solution text appears in the Explanation modal window in Student View. All Part Solutions for all parts will appear in this modal window.</p> <p>Part 1</p> <p>The term "bubo" means swollen lymph node, which is how the bubonic plague was named.</p> <p>Part 2</p> <p>The prefix "pan" means "across," which is why "pandemic" means that it is across all nations.</p>		

Part 2 (1 point)
Explanation

Summary Solution

When a question contains multiple parts, the Summary Solution section is used to explain all of those parts together. You can write a Summary Solution alone, or write a Summary Solution in addition to Part Solutions.

☒ **Summary Solution** Expand the Summary Solution section by clicking on the check box

H_2O $\sqrt{5}$ x_2 x^2 f_x Ω I_x

Editable Text Field

You can expand the Summary Solution section by clicking on the check box next to the words "Summary Solution." Unchecking the box does not delete what is in the Summary Solution section; it just collapses it.

The Summary Solution section contains the same Text Editor as the Hint Text section and the Part Solution section.

In Student View, the Summary Solution will appear underneath the last Part Solution in the Explanation modal window.

plague. Yong Ding's body was one of many lining the street that year.

⚡ Solution

Explanation

Part 1

Part 2

Part 1

The Summary Solution will appear underneath the Part Solution of the last part of the question

The term "bubo" means swollen lymph node, which is how the bubonic plague was named.

Part 2

The prefix "pan" means "across," which is why "pandemic" means that it is across all nations.

Several kinds of antibiotics are used to treat the bubonic plague today, including doxycycline and ciprofloxacin.


Part 2 (1 point) ⚡ Explanation

Add Part Button

Add Part

The Add Part button, located directly under the Summary Solution section, adds an additional part to your question. A part consists of a Points section, a Question Text section, a Hint Text section, and a Part Solution. Adding multiple parts to a question is optional.

You can delete parts by clicking on the trash can in the Points section of the part you want to delete.

Part 2 points  Click here to delete part

Clicking the "Add Part" button adds another Question Text section, another Points section, another Hint Text section, and another Part Solution to your question.

Question Text*

Rich text editor toolbar with icons for text formatting, alignment, and insertion.

☐ **Hint Text**

Part Solution*

Rich text editor toolbar with icons for text formatting, alignment, and insertion.

☐ **Summary Solution**

Auto-save FAQ

The Question Editor contains an auto-save feature, which automatically updates the system with the changes you are making to your question. Although the system auto-saves your question, you **should not** rely on auto-save alone when authoring a question.

- *How often does the system auto-save?*

The system auto-saves whenever an action is taken, such as inserting a module into the question text section. It also auto-saves after a certain amount of time has lapsed.

- *Does it show a message to the user that it's been auto-saved?*

Yes, it shows this in the upper right hand corner of the Question Editor. When it first saves, the message "Save" will appear in green. When a certain amount of time has lapsed, the system will display in red the length of time since the last auto-save.

- *Is there a way to undo or revert changes in a question in the AMS?*

No there is not.

Creating a Question

To create a question in Smartwork5, do the following:

1. Access the Question Editor by clicking on the “Create” button from the AMS home screen.
2. Fill out the necessary metadata for your question. Click on the “Continue” button once this is completed.
3. If desired, create the algorithmic variables you want to use in your question by expanding and using the Algorithm Editor. Please refer to the Algo documentation for an in-depth look at how to do this. You can go back to this step at any time to edit your algos during the Question creating process.
4. If desired, create an introduction for your question by expanding and using the Introduction section.
5. In the Question Text section, write out your question stem.
6. Choose the module you would like students to use when answering your question by clicking on the appropriate button in the Module Palette. In the module, define and set the correct answer and correct feedback, as well as the default and incorrect feedback. For an in-depth look at how to do this, please refer to the appropriate documentation for the module you are using.
7. If desired, adjust the number of points the question in this Question Text section is worth in the Points section. Remember that the points will increase by one for each module added to the Question Text section associated with this Points section.
8. If desired, create a Hint for your question. Many Editors require all questions to have hints; however, check with your Editor for best practices.
9. In the Part Solution section, write a solution that students will see if they give up on the question, or exhaust their answer attempts. In many disciplines, such as Chemistry, Editors require that the Part Solution give step-by-step instructions as to how to solve the question. However, check with your Editor for best practices for your particular discipline.
10. Save your question.
11. Click on preview mode to preview your question as a student. This is a good opportunity to make sure your question is functioning correctly.
12. **If you are creating a question that has multiple parts** , return to the Question Editor and click on the Add Part Button.
13. For this new part, add the following; the Question stem and Question module; the Hint Text, and the Part Solution. If desired, adjust the Points section for this new part.
14. Repeat until you have added all the desired parts for your question.

- a. There is no limit as to how many parts you can add to a question; however, please check with your Editor for best practices.
 - b. In the event that you need to delete a part, you can do so by clicking on the trash can in the Points section of the part you want to delete.
15. If desired, create a Summary Solution to tie all the parts of your question together.
16. Save your question. Preview it in student mode to ensure that all parts are working correctly.
-