Question Library

Question library is a place where you can create and store questions to use for quizzes, self-assessments, and surveys in your current and future courses. You can create multiple sections within the Question Library to organize your questions by type and topic, making it easier for you to find questions. As a best practice for storage, organization, and easy access, we recommend that you create all your questions using the Question Library.

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Types of Questions

You can create the following question types in Question Library:

- True or False (T/F)
- Multiple Choice (M/C)
- Multi-Select (M-S)
- Written Response (WR)
- Short Answer (SA)
- Multi-Short Answer (MSA)
- Fill in the Blanks (FIB)
- Matching (MAT)
- Ordering (ORD)
- Arithmetic (2+2)
- Significant Figures (x10)
- Likert (LIK)

Manage the Question Library

Create Sections

You can create sections to organize your questions into folders inside Question Library. You can also import sections from Question Library directly into a quiz, survey, or self-assessment.

1. In Question Library, from the New button, click Section.
2. Enter a **Section Title**. If you want to hide the section titles, section text, or shuffle the questions in the section, check the appropriate boxes.

3. Click **Save**.

4. Sections appear in the Question Library as folders. Click on the section title to add questions to the section.

5. **Repeat** this process to create as many sections in your Question Library as you would like.

6. You can further organize questions into subsections. Click on the title of any **Section** folder to open it.

7. Follow the same steps for creating a section.

8. Repeat this process to add as many subsections as needed.
Edit a Question or Section

1. In Question Library, click **Edit** from the dropdown menu of the question or section you want to edit.

2. Make your changes and click **Save**.

Preview Questions

Use the preview page to view the appearance of an individual question, as well as the comments and hints included with the question.

1. In Question Library, click **Preview** from the drop-down menu of the question you want to preview.
2. If the question appears in more than one place, the preview page also lists the other places the question appears (for example, in the Quizzes, Surveys, and Self Assessments tools).

Reorder Questions or Sections

1. In Question Library, click **Order**.

2. On the **Order** page, select the check box for any question or section you want to move.
3. Click the **Move Up** or **Move Down** arrows. Click **Save**.
Create a Section to Reference an Image

Create a section to provide supplementary information (text, image, attachment) that relates to more than one question. If you have several questions that need to reference the same figure or diagram, creating a section avoids the need to repeatedly upload the same image file for each question.

1. Create a section and enter a **Section Title**.
2. In the **Section Text**, use the tool bar to add an image or upload a file from your computer.
   a. Note: Provide clear expectations by adding a comment regarding which quiz questions will reference the provided figure.
3. Click **Save**.

4. From Question Library, click on the section title and select **New** to create questions about the image.
5. As users attempt the quiz, questions within the section will be grouped under the provided Section.

Import Questions into Question Library

Import from a File

A formatted text file template CSV or IMS QTI compliant course package (ZIP) can be imported into Question Library. This is an effective way to create custom quizzes from publishers’ content or past semesters

1. Before importing question from an existing quiz, it is best to create a section for the questions being imported. This will keep the Question Library organized.
2. In Question Library, click on the name of the section where the questions will be imported.

3. Click the **Import** button and choose **Upload a File**.

4. From the **Upload a File window**, select the source where existing questions reside by clicking **Browse Files** and selecting the file or dragging and dropping the selected file into the **Upload a File window**.
5. Once the file finishes uploading, **Review** the uploaded questions in the **Upload a File window**.

6. To import all the questions from the upload, click **Import All**. To import select questions from the file upload, select the questions you want to upload and click **Import Selected**.
Import from an Existing Quiz

If questions were created in a quiz, it’s good practice to import them to the Question Library so that they are not lost if the quiz is deleted.

1. Before importing questions from an existing quiz, it is best to create a section for the questions being imported. This will keep the Question Library organized.

2. In Question Library, click on the name of the section where the questions will be imported.

3. Click the Import button and choose Browse Existing Questions.
4. Change the **Source Collection** to the quiz you would like to import the questions from.

5. The list of questions will appear on the page. Check the box next to the questions or sections you would like to import, or check the box at the top to select them all then click **Add**.
Create New Questions for the Question Library

1. On the navbar, click **Quizzes**.

2. Select **Question Library**.

3. Select **New**.
4. Select the desired question type. Detailed instructions for each type of question can be found in the following sections.

Question Library

- True or False Question (T/F)
- Multiple Choice Question (MC)
- Multi-Select Question (M-S)
- Written Response Question (WR)
- Short Answer Question (SA)
- Multi-Short Answer Question (MSA)
- Fill in the Blanks Question (FIB)
- Matching Question (MAT)
- Ordering Question (ORD)
- Arithmetic Question (2×2)
- Significant Figures (x10)
- Likert Question (LIK)
True or False Questions

True or false (T/F) questions present a statement that respondents must determine is correct or incorrect.

1. In the **Question Text** field, enter your true or false question. A preview of the question appears in the right-hand preview pane as you begin creating the question.
2. In the **Answers** area, select **True** or **False** as the correct answer.
3. Set the number of **Default Points** for the true or false question.

4. Optional: From the **Options** drop-down list, specify the following:
   a. To add feedback for each answer, select **Add Feedback**.
   b. To add a hint to the question, select **Add Hint**.
   c. To add a short description to the question, select **Add Short Description**.
   d. To select how you want your options to be enumerated, select an option from the **Add Enumeration > Enumeration** drop-down list.
5. Click **Save**.

Multiple Choice Questions

Multiple choice (M/C) questions present a statement or question with a list of possible answers, in which learners must choose the best possible answer. Multiple choice questions differ from multi-select questions in that learners select one answer for each multiple choice question. If you create a multiple choice question that has more than one possible solution, you can weigh the answer according to the correctness of each possible answer.
1. In the **Question Text** field, enter your multiple choice question. A preview of the question appears in the preview pane as you begin creating the question.
2. In the **Answers** area, enter the answers for the multiple choice question.
3. To add additional answers, click **Add Answer**.
4. If you want to allow each learner to submit random answers, select the **Randomize answers for each learner** check box.
5. Set the number of **Default Points** for the multiple choice question.

6. Optional: From the **Options** drop-down list, specify the following:
   a. To add feedback for each answer, select **Add Feedback**.
   b. To add a hint to the question, select **Add Hint**.
   c. To add a percentage weight for each answer, select **Add Custom Weights**. You can set different weights for each answer if some solutions are more correct than others.
   d. To add a short description to the question, select **Add Short Description**.
   e. To select how you want your options to be enumerated, select an option from the **Add Enumeration** drop-down list.
7. Click **Save**.
Multi-Select Questions

Multi-select (M-S) questions require learners to identify one or more correct answers in a list of possible answers. Unlike multiple choice (MC) questions, multi-select questions enable you to choose a grading format and allow users to select more than one answer.

1. **In the General area, enter the Points and Question Text.**

![New Multi-Select Question Form](image)

2. **Optional: From the Options section, specify the following:**
   a. From the Enumeration drop-down list, select how you want your options to be enumerated.
   b. Select the Style of how you want your question to display (vertical or horizontal).
   c. Select your Grading method.
   d. Choose to Randomize options.

![Options Section](image)
3. Enter a choice in each **Value** field. Select the **Correct** check box for every right answer.

4. To verify your question, click **Preview**. Click **Done** when you are finished previewing the question.
Grading Options for Multi-Select

There are three possible grading options for multi-select questions:

- **All or nothing** - Users receive full points for the question if they select all of the correct answers and none of the incorrect answers. Users receive zero points if they miss any correct answers or select any incorrect answers.

- **Right minus wrong** - Users receive points equal to the number of right answers they choose minus the number of incorrect answers they choose. To determine how much each answer is worth, the system takes the total number of points assigned to the question and divides it by the total number of answer choices. Users can receive a minimum of zero on a question; they cannot receive a negative mark.

- **Correct answers** - Users receive points for each correct answer they select and for each incorrect answer they leave blank. Incorrect answers selected and correct answers left blank are ignored. Written Response Questions
Written Response Questions

Written response (WR) questions require learners to write detailed answers in response to open-ended questions. You can enable users to respond in multiple sentences, paragraph answers, mathematical explanations and calculations, and attach files and images to support their answers. Written response questions are not auto-graded.

1. In the **Question Text** field, enter the question details. A preview of the question appears in the right-hand preview pane as you begin creating the question.
2. If you want learners to be able to format their answer, select the **Enable HTML Editor for student responses** check box.
3. To allow learners to attach files and images to support their answers, select the **Enable inserted images and attachments** check box.
   a. This option allows learners to upload files in their answers, and also record audio or video responses when answering written response question types.
   b. The max. file size for all files attached in a single question response is 100MB.
4. In the **Default Points** field, enter the points learners will receive for answering the whole question correctly.

5. Optional: From the **Options** drop-down list, specify the following:
   a. Choose whether to **Add Feedback**, **Add Hint**, or **Add Short Description**.
   b. To assist evaluators in their marking, select **Add Answer Key**.
   c. To customize the response box size, select **Add Custom Response Box Size**.
   d. To add initial text for student responses, select **Add Initial Text**.
6. Click **Save**.
Short Answer Questions

Short answer (SA) questions require learners to create one word or brief sentence answers in response to open-ended questions.

1. In the **Question Text** field, enter your short answer question details. A preview of the question appears in the right-hand preview pane as you begin creating the question.
2. In the **Answers for Blank 1** field, enter your answer(s).
3. From the **abc** drop-down list for blank 1, select the comparison method, that is **Text**, **Case-Sensitive Text**, or **Regular Expression**.
4. If you want to add more blanks, click **Add Blank** and enter your answer(s).
5. In the **Default Points** field, enter the points learners will receive for answering the question correctly.

6. Optional: From the **Options** drop-down list, choose whether to **Add Feedback**, **Add Hint**, or **Add Short Description**.
7. Click **Save**.

Grading Options for Short Answer, Multi-Short Answer, and Fill in the Blanks Questions

There are three possible grading options for short answer, multi-short answer, and fill in the blanks questions:

- **Case Insensitive** - Auto-grading searches for a matching character pattern in the answer text with or without letter case correctness.
- **Case Sensitive** - Auto-grading searches for a matching character pattern in the answer text that must have letter case correctness.
- **Regular Expression** - Auto-grading uses meta-characters to search for one or more matching strings in the answer text's character pattern. What you set as meta-character parameters helps determine letter case sensitivity.
Multi-Short Answer Questions

Multi-short answer (MSA) questions require learners to answer a multi-solution question and input their answers into individual input boxes. Answers are checked against each possible answer stored in the answer fields.

Multi-short answer questions differ from short answer (SA) questions in that the multi-short answer question enables you to create multiple answer boxes, which all relate to one answer set; short answer questions also support multiple answer boxes, but each requires a distinct set of possible answers. The short answer question type is ideal if you need to create a multi-part question that cannot share the same answer pool.

1. In **Points** field, enter the points learners will receive for answering the whole question correctly.
2. In the **Question Text** field, enter your question details.
3. In the **Input boxes** field, enter the number of required answer fields you want your question to have. You can assign the number of rows and columns for each answer field.

4. To assign more possible answers for the question, click **Add Answer**.

5. In the **Answer** fields, enter the correct answers for your question, the **Weight** for each answer (you can set different weights if some solutions are more correct than others), and the **Evaluation** criteria.

![Input boxes and Answers](image)

5. To verify your answer, click **Preview**. Click **Done** when you are finished previewing the question.

![Preview Question](image)
Fill in the Blanks Questions

Fill in the blanks (FIB) questions require learners to fill in one or more missing words for an incomplete sentence, statement, phrase, list, or key terminology. As a best practice, D2L recommends that answers in blank fields be no more than one or two words to ensure auto-grading accuracy. If your FIB question has multiple blank fields and each blank field has several possible answers.

1. In the **General** area, enter your fill in the blanks question details.

![New Fill in the Blanks Question](image)

2. In the **Question Text** area, do the following:
   a. Enter your question text, in the **Text #1** area.
   b. In the **Blank #1** area, enter your information, including the **Answer** to the text, the **Weight** you want to assign the answer (you can set different weights if some solutions are more correct than others), and the **Evaluation** criteria.
   c. To assign more possible answers for the blank, click **Add Answer**.
   d. To add more blanks to the question, click **Add Blank**.
   e. To add more text to the question, click **Add Text**.

![Question Text](image)
3. To verify your question, click **Preview**.

Matching Questions

Matching (MAT) questions require learners to choose from a set of possible match choices from drop-down lists and correctly pair them with related items.

1. In the **General** area, enter the **Points** and **Question Text**.
2. In the **Choices** area, select the **Grading** method for the question.
3. In each **Value** field, enter a choice. To add additional values for the question, click **Add Choice**.

![Choices Diagram]

4. In the **Matches** area, enter a choice in each **Value** field. Note: Matches are randomized when taking the question.
5. To add additional matches for the question, click **Add Match**.
6. From the drop-down list for each matching value, select the corresponding **Correct Choice**.

![Matches Diagram]
To verify your question, click **Preview**.

### Grading Options for Matching and Ordering Questions

There are three possible grading options for matching and ordering questions:

- **Equally weighted** - The total point value is divided equally among all possible correct matches. Users receive equally weighted points for each correct answer.
- **All or nothing** - Users receive full points for the question if they select all of the correct answers and none of the incorrect answers. Users receive zero points if they miss any correct answers or select any incorrect answers.
- **Right minus wrong** - Users receive points equal to the number of right answers they choose minus the number of incorrect answers they choose. To determine how much each answer is worth, the system takes the total number of points assigned to the question and divides it by the total number of answer choices. For example, if a question is worth 10 points and has 5 answer choices, each correct answer is worth 2 points, and each incorrect answer is worth -2 points. If a user gives 3 correct answers and 2 incorrect answers, 2 is the total number of points received for the question \((3\times2) + (2\times-2)\). Users can receive a minimum of zero on a question; they cannot receive a negative mark.
Ordering Questions

Ordering (ORD) questions require respondents to arrange a series of items into a correct sequence or order.

1. In the **General** area, enter the **Points** and **Question Text**.

   ![New Ordering Question](image)

   - **Title**: (optional)
   - **Points**: 1
   - **Difficulty**: 1
   - **Question Text**: Put the countries in order according to size (by land area). Start with the largest country first.

2. In the **Options** area, select your **Grading** method.

   ![Options](image)

   - **Grading**: Equally weighted, All or nothing, Right minus wrong.
3. In each **Value** field, enter a choice. To add more values, click **Add Item**. From the **Correct Order** drop-down list for each value, set the order of the values. The first value in the correct order should be "1".

4. To verify your question, click **Preview**.

**Preview Question**

When taking the question, it would appear as:

Put the countries in order according to size (by land area). Start with the largest country first.

- Mexico
- Nicaragua
- Canada
- United States

When grading the question, it would appear as:

Put the countries in order according to size (by land area). Start with the largest country first.

1. Mexico
2. Nicaragua
3. Canada
4. United States
Arithmetic Questions

Arithmetic questions enable you to assess users' knowledge and comprehension of mathematics and number theory. It is recommended that you create written response (WR) question types for arithmetic problems that require users to demonstrate their calculations and show their work.

1. Optional: Add a question **Title**.
2. Enter the **Points** and **Question Text**. Note: You can ensure each learner receives a unique question by including variables enclosed with curly braces that randomly generate numbers within the problem.
3. Optional: Choose to **Insert an Image** into the question text or add a **Description**.
4. To allow learners to attach external files with their responses and record audio or video responses when answering these question types, check **Allow attachments to support answers**.
5. The maximum file size for all files attached or embedded in a single quiz question response is 102400 KB (100MB).

![New Arithmetic Question Form](image)
6. If Allow attachments to support answers is checked, students will have the option to **Add a File**, **Record Audio**, or **Record Video** when responding to the question.

![Preview Question](image)

7. Enter the solution to your problem in the **Formula** field. Be sure to enclose all variables in curly braces.

![Formula](image)

8. In the **Variables** area, you may do the following:
   a. Create any variables you want to use with your question by giving the variable a **Name**, a minimum value in **Min**, and a maximum value in **Max**.
   b. Set the number of decimals to provide in the **Decimal Places** drop-down list.
   c. To set the system's incrementing steps as it generates numbers from the range set by the **Min** and **Max** fields, enter a number in the **Step** field.
   d. For example, if you set variables x, y, and z with a Min 1 to Max 5 number range in 1-step increments, the question “You have \{x\} green marbles, \{y\} red marbles, and \{z\} blue marbles. How many marbles do you have in total?” will randomly generate a rational number (1, 2, 3, 4, 5) for \{x\}, \{y\}, and \{z\}.

![Variables](image)

9. To verify your question, click **Preview**.
Significant Figures Questions

Significant figures questions require learners to answer in scientific notation and provide solutions that contain a specified number of significant figures. Math and science courses commonly use this question type. You can ensure each learner receives a unique question by including variables enclosed with curly braces that randomly generate scientific notations within the problem.

1. Optional: Add a question **Title**.
2. Enter the **Points** and **Question Text**. Enclose variables with curly braces to generate random numbers.
3. Optional: Choose to **Insert an Image** into the question text or add a **Description**.
4. To allow learners to attach external files with their responses and record audio or video responses when answering these question types, check **Allow attachments to support answers**.
   a. The maximum file size for all files attached or embedded in a single quiz question response is 102400 KB (100MB).
5. If Allow attachments to support answers is checked, students will have the option to **Add a File**, **Record Audio**, or **Record Video** when responding to the question.

6. Enter the solution's formula in the **Formula** field and enclose variables in curly braces. To verify your formula before sharing it with learners, click **Test**.
7. In the Significant Figures area, you may do the following:
   a. Select how many **Significant Figures** answers must contain. Select a percentage from the **Deduct % of points for incorrect significant figures** drop-down list to assign a weighted points value to the correct number of significant figures.
   b. Select a **Tolerance** option to accept near-accurate, estimated, and rounded answers.
   c. Enter a unit type (mm, cm, grams, inches, etc.) in the **Units** field to assess if answers include correct units of measurement. Select a percentage from the **Worth % of Points** drop-down list to assign a weighted points value to the measurement unit.

8. In the **Variables** area, you may do the following:
   a. Create any variables you want to use with your question by giving the variable a **Name**, a minimum value in the **Min** field, and a maximum value in the **Max** field.
   b. To set the system's incrementing steps as it generates numbers from the range set by the **Min** and **Max** fields, enter a number in the **Step** field.
9. To verify your question, click **Preview**.

![Preview Question](image)

**Likert Question**

Create Likert (LIK) questions to measure subjective information such as personal opinions, knowledge, abilities, and attitudes. Likert questions enable you to create surveys that evaluate the intensity of learners’ feelings towards statements presented to them. You can only access Likert questions through the Surveys tool and Question Library.

1. In the **General** area, enter your Likert question details.

![New Likert Question](image)
2. In the **Questions** area, select the **Scale** you want the question to use.

[Image of Questions section with scale options]

3. In each **Value** field, enter a statement. To include additional statements, click **Add Option**.

[Image of Value fields with statements]

4. To verify your question, click **Preview**.

[Image of Preview Question with statement options]