

Online Quizzes

60 minutes

Description

In a perfect world, you would instantly know how well a lesson worked and how many students grasped the concepts you covered.

Online quizzes in Aspen IMS bring that perfect world closer to your classroom. First, create and store questions in your Question Bank.

Then, create an online quiz. You can add questions from your Question Bank to the quiz, which you can store in My Resources. Drag a quiz from My Resources to a date on your Planner to create an assignment, and make it available to students via the Student portal.

Students can take quizzes using their mobile devices, and their responses are uploaded directly to your gradebook, where they are auto-scored. Or, if you prefer, you can view and score quizzes individually.

Instantly, you can review scores and statistics for each question. This helps you to determine concepts your students understand, and those they might need more help with.

Upon completion of this lesson, you will create questions in your Question Bank, create an online quiz, and discover how online quiz scores and statistics can help you shape future lessons.

Prerequisites

Be sure you have completed the following lesson plans:

- Finding Your Way Around Aspen IMS
- Getting Started with Aspen IMS
- Digital Content in the Classroom

Materials Checklist

Each participant should bring the following to this class:

- A quiz or pre-test you currently use in one of your classes

Participant Objectives

- Add questions to the Question Bank.
- Create an online quiz.
- Attach an online quiz to an assignment.

Activities

- Answer questions to plan how you can use the Question Bank and online quizzes in Aspen.
- Using the quiz or pre-test you brought to this class, enter the questions in your Question Bank.
- Create a ready-to-use online quiz with the questions you entered in the Question Bank.
- Create a new online quiz through My Resources.
- Create a new quiz using Aspen IMS Mobile.

Resources

For more information on this lesson and to complete the *Plan* and *Apply* sections, refer to the resource listed below. This is available in Aspen from the **Help** menu, **Videos**. You can also access online Help from the **Help** menu.

Quick Reference Guides:

- Online Quizzes
- Online Quizzes in Aspen IMS Mobile

Plan

Use the space provided to record your answers to the following questions.

1. What quizzes or other pre-tests do I use regularly or year after year?

2. What quizzes or pre-test questions do or can I share with other teachers? As a group, or on your own, complete the table below, to answer the question:

Mine	Shared	Theirs

3. If you could instantly see how many students selected an incorrect answer for a specific question, how could you use that information to alter the lesson going forward?

Apply

Now that you've taken an in-depth look at online quizzes, complete the following in the order listed:

- 1. Using the quiz or pre-test you brought to this class, enter the questions and answers in your Question Bank.
- 2. Create a new online quiz through My Resources.
- 3. Create a new online quiz as part of an assignment. Move that quiz from the Uploads folder in My Resources to the appropriate folder.
- 4. Create a new quiz using Aspen IMS Mobile.

Assess

Staff Name: _____ Date: _____

Online Quizzes

Use the following table to confirm that you successfully completed each task, and to make any notes:

I can...	Do this in Aspen...
	Add questions to your Question Bank.
	Add and create a quiz to My Resources.
	Create a new online quiz as part of an assignment.
	Use Aspen Mobile to create an online quiz.
	Analyze online quiz results.
Notes:	

Creating and Scoring Online Quizzes

[Create online quizzes](#) for your students to take using the Student portal.

You can create questions for a quiz while you create the quiz, or [add questions to your Question Bank to put on quizzes](#).

After students take the quiz, the system can either automatically scores the quizzes (if you create them with answers) based on the point values you defined for each, or you can view and score them on the Scores page.

[You can review these scores and view statistics for each question within the quiz.](#)

Add Questions to an Online Quiz

With Aspen IMS, teachers can administer online quizzes, which students take using the Student portal.

There are two ways to include questions in an online quiz:

- Teachers can [create the questions as they create their quiz](#).
- Teachers can use a Question Bank to select questions that are added at the district level, school level, or by the teachers themselves.

To add questions to a Question Bank:

1. Do one of the following:
 - If you are a district-level curriculum developer, log on to the District or Intermediate Organization view. Click the **Assessment** tab, then click the **Question bank** side-tab.
 - If you are a teacher, log on to the Staff view. Click the **Tools** tab, then click the **Question Bank** side-tab.
2. A list of questions already created appears. As a teacher, you might see questions for your subject and grade levels that were created at the district or school level, in addition to any of the questions you created in your personal Question Bank:

Question	Grade	Subject	PercentCorrect	CorrectCount	Attempts	AverageTime
<input type="checkbox"/> Describe Lenny and George's friendship.			0%	0	1	38128
<input type="checkbox"/> Diamonds are pure.			60%	3	5	0
<input type="checkbox"/> What time of day do Lennie and George reach the...			0%	0	1	2131
<input type="checkbox"/> What time of day is it when George and Lenny ar...			100%	5	5	0
<input type="checkbox"/> What is Lennie's last name? Why does it not fi...			0%	0	1	10158
<input type="checkbox"/> What is the meaning of mice to Lennie? How does...			0%	0	1	2818
<input type="checkbox"/> Who is the first person they meet on the ranch? ...			0%	0	1	1881
<input type="checkbox"/> Diamonds are pure.			60%	3	5	0
<input type="checkbox"/> How likely is it that the water evaporates in E...			100%	5	5	0

For each question, the **Percent Correct** column displays a bar graph to show the historical percentage of students who have answered this question correctly in previous online quizzes.

3. On the **Options** menu, click **Add**. The New Question page appears:


Note: Select the **Subject** and **Grade level** for district- and school-level questions. This determines which teachers can select these questions when creating online quizzes.

4. At the **Type** field, select one of the following:
- MC (multiple choice)
 - OR (open response)
 - SA (short answer)
6. If you create this question while creating a quiz, the **Point value** field appears. Type the number of points students earn if they answer this question correctly.
7. Use the text editor to type the content of the question. You can use all the capabilities of a text editor, such as links, images, etc.
8. To add the answer(s), do the following:
- If the question is an **OR** type, in the **Correct answer** field, type the answer for your reference while correcting the quizzes online.
 - If the question is an **SA** type, type the answer in the **Correct answer** field. Aspen uses this text to score student answers. If the student does not spell the answer correctly, the student is incorrect. Aspen does not score spaces, punctuation, or capitalization.
 - If the question is an **MC** type, click **Add** at the bottom of the page to add the answer choices:

Label	Correct	Description	Order
<input type="checkbox"/> Morning	N		0
<input type="checkbox"/> Afternoon	N		0
<input type="checkbox"/> Supper time	Y		0
<input type="checkbox"/> Midnight	N		0
<input type="checkbox"/> Dawn			0

Warning: You cannot include commas in the text you include in the **Label** field. This causes an error when Aspen IMS scores this question.

Type a **Label**. Select the **Correct** checkbox for the correct answer. In the **Description** field, you can type additional information for the answer, or insert links or images. Click **Save**.

Note: Click the **Sequence** icon  in the **Order** column to drag the answers in the order you want them to appear on the quiz.

9. Click **Standards** on the **Question Bank** side-tab to align standards to the question.
10. Click **Save**.

Create an Online Quiz

Create online quizzes for your students to complete in the Student portal.

After you create a quiz, you can create an assignment and attach the quiz. The quiz appears in the Student portal between the **Date due** and **Date assigned** you defined.

Aspen scores the quizzes based on the point values you define for each question.

To create online quizzes:

1. Log on to the Staff view.
2. Click the **Planner** tab.
3. Do one of the following:

- Click **My Resources**. Click in the folder you want to save the quiz. At the bottom of My Resources, click **Add**, and select **Online Quiz**.
- Click the date you want to create a quiz. Click **Add Assignment**. The New Assignment page appears. In the **Resources Provided by the Teacher** field, click **Create Online Quiz**.

Note: If you create your quiz from My Resources, the quiz you create is saved in My Resources for you to use again. If you create a quiz from an assignment, it saved in the Uploads folder in My Resources.

The Create Online Quiz dialog box appears:

4. On the **Setup** sub-tab, do the following to create the cover page for the quiz:
 - In the **Title** field, type a title for the quiz.
 - In the **Questions per page** field, type the number of questions you want to appear on each page of the quiz. (Students click **Next** to move from page to page).
 - Select the **Random order** checkbox to have the questions appear in random order.
 - Select the **Allow review** checkbox if you want to allow students to go back to a question they previously answered. Otherwise, after a student clicks **Next** to move to the next question, they cannot return to the question.
 - In the **Description** text editor, type a description of the quiz. Students read the description when they open the quiz. Because it is a text editor field, you can include web links, images, etc.
5. Click the **Questions** sub-tab to define the questions for the quiz:

PointValue	Question	Order
<input type="checkbox"/> 2	1. Describe Lenny and George's friendship.	0
<input type="checkbox"/> 2	What is Lennie's last name? Why does it not 'fit' Lennie? What meaning could Steinbeck have been trying to convey with this name?	0
<input type="checkbox"/> 2	What time of day do Lennie and George reach the ranch?	0
<input type="checkbox"/> 2	Who is the first person they meet on the ranch? Describe that character.	0
<input type="checkbox"/> 4	What is the meaning of mice to Lennie? How does this help us to get to know him better as readers?	0

- Click **Browse Item Bank** if you have created questions in your Question Bank. Select the questions you want to add to the quiz.
- To add new questions to the quiz, click **Add**. [Define the question information](#).

Note: Any questions you create for this quiz appear in your [Question Bank](#). For each question, you can select the **Exclude from Shared Item bank** checkbox to keep the question from appearing in the school, district, and other teachers' Question Banks.

- After you create and add all questions to the quiz, click **Save**. This quiz is now saved in My Resources.

Create an Assignment for a Quiz

After you create an online quiz in My Resources, you need to attach it to an assignment for it to be available to students in the Student portal.

To attach an online quiz to an assignment:



- Log on to the Staff view.
- Click the **Planner** tab.
- Click **My Resources** to open it.
- Do one of the following:
 - Find the online quiz in My Resources. Click, drag, and drop the quiz file to the date you want to assign the quiz on your calendar (a green checkmark appears if the class or classes you have selected to view on your calendar meet on that date). [The New Assignment page displays the quiz in the Resources Provided by the Teacher field](#).

- Click your calendar on the date you want to assign the quiz. Click **Add Assignment**. The [New Assignment page](#) appears. Find the online quiz in My Resources, and click, drag, and drop the quiz file into the **Resources Provided by the Teacher** field.
5. Click **Save**. The quiz appears in the students' To Do widget in the Student portal between the **Date due** and **Date assigned** you defined for the assignment.

Review Scores for Online Quizzes

After your students take online quizzes in the Student portal, you can use your gradebook to review the scores they earn.

To review scores for online quizzes:

1. Log on to the Staff view.
2. Click the **Classes** tab.
3. Select the section you want to view the scores for, and click the **Scores** side-tab.
4. Find the grade column for the online quiz assignment. Do one of the following:
 - If any questions are multiple choice-type and you defined the correct answer, Aspen can calculate the scores for students who have finished (based on the **Points values** you defined for each question). The score appears.
 - Click the **Online Quiz** icon  to open the quiz and review student scores.
 - If Aspen cannot score the quiz (the questions are short answer or free text), click the **Online Quiz**  icon to open the quiz, and enter scores.

A summary of the students' performance by question appears:

#	Question	Time	Responded	Correct
1	Describe Lenny and George's friendship. <small>OR</small>	n/a	0	n/a
2	What is Lennie's last name? Why does it not 'fit' Lennie? What ... <small>OR</small>	n/a	0	n/a
3	What time of day do Lennie and George reach the ranch? <small>MC</small>	n/a	0	n/a
4	Who is the first person they meet on the ranch? Describe that chara... <small>OR</small>	n/a	0	n/a
5	What is the meaning of mice to Lennie? How does this help us to get... <small>OR</small>	n/a	0	n/a

For each question, the summary includes the following columns of information:

- **Time:** The average time students take to complete each question.
- **Responded:** The number of students who have responded.

- **Correct:** The percentage of students who responded and got the correct answer.

For any MC (multiple choice) or SA (short answer) type questions for which you define an answer, Aspen calculates the value in each column.


Otherwise, for OR (open response) type questions, click on a question to correct it for your students. The summary page for that question appears:

APT Eng (ENG12302-001) - Of Mice and Men Chapter 1 Quiz Question 1 of 5 1. Describe Lenny an... > Close

1. Describe Lenny and George's friendship.

Name	Response (George is the boss. Lenny relies on George.)	Time	Score (2)
Boucher, Christopher		0:00:00	
Cyr, Roberto		0:00:00	
Garrick, Hailey		0:00:00	
Houle, Steven		0:00:00	
Powell, Ian		0:00:00	
Whaley, Meshell		0:00:00	

Note: You might want to review student answers for SA (short answer) type questions. Aspen scores those answers exactly as you define. For example, if the answer is "**Bangladesh**", and the student types "**Banglidesh**", the answer is incorrect. Aspen does not score spaces, punctuation, or capitalization.

- For each student, the **Response** column lists their response. The **Time** column lists the amount of time it took the student to select or enter an answer. Type or edit the score in the **Score** column.
- Click  to move to the next question, or **Close** to close the window.
- On the quiz summary page, click **Update Gradebook** to enter the scores into the gradebook column for the quiz:

APT Eng (ENG12302-001) - Of Mice and Men Chapter 1 Quiz Update Gradebook Close
Class size: 6

#	Question	Time	Responded	Correct
1	Describe Lenny and George's friendship. <small>OR</small>	n/a	0	n/a
2	What is Lennie's last name? Why does it not 'fit' Lennie? What ... <small>OR</small>	n/a	0	n/a
3	What time of day do Lennie and George reach the ranch? <small>MC</small>	n/a	0	n/a
4	Who is the first person they meet on the ranch? Describe that chara... <small>OR</small>	n/a	0	n/a
5	What is the meaning of mice to Lennie? How does this help us to get... <small>OR</small>	n/a	0	n/a

Aspen calculates each student's score for the quiz.

Creating an Online Quiz in Aspen IMS Mobile

Use Aspen Mobile to create an online quiz. There are three basic steps:

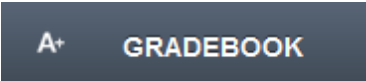

1. [Define the quiz details](#), such as title and instructions.
2. [Define the questions](#).
3. [Define the quiz options](#), such as the due date and if students can revisit questions and answers they have completed.

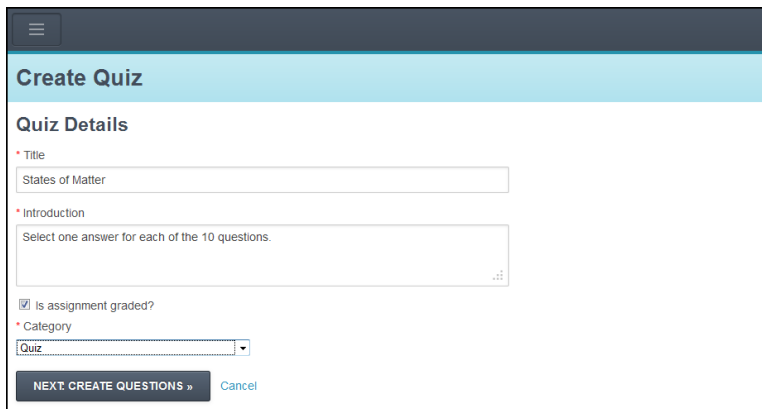
Then, you can [preview the quiz](#) to see what your students will see.

Create and Online Quiz and Define Its Details in Aspen IMS Mobile

Get started creating an online quiz using Aspen IMS Mobile for teachers.

To create a quiz and define its details:

1. Log on to Aspen IMS Mobile.
2. Tap .
3. Tap the class you want to create the quiz for.
4. Tap . The Create Quiz screen appears:



5. Type a **Title**. This is also the assignment name.
6. Type an **Introduction**. This is where you need to give students directions to take the quiz, and any other information they need to know.
7. If you want Aspen IMS to autoscore the quiz, select the **Is assignment graded** checkbox. Otherwise, the assignment with the quiz appears for your students in the Student portal as an item in their To Do

widgets, such as a reading assignment. You do not have the ability to see results, answers, statistics, or any scoring information for ungraded quizzes.

8. At the **Category** field, select the assignment category you want the assignment for this quiz to be.

9. To create questions for this quiz, tap **NEXT: CREATE QUESTIONS »**.

Use Questions from the Question Bank in Aspen IMS Mobile

You can quickly create a quiz by selecting questions from the Question Bank.

Note: After you select questions from the Question Bank, you need to define the points each question is worth for this particular quiz.

To select questions from the Question Bank:

1. After you define the quiz details, tap **NEXT: CREATE QUESTIONS »** to create the questions for the quiz. The 'Create a Question' screen appears:

2. To select a pre-existing question from the Question Bank, tap **CHOOSE FROM QUESTION BANK**. The 'Add from Question Bank' screen appears:

Question	Type	Subject	Grade
<input type="checkbox"/> When the following equation: $__ \text{Ca(OH)}_2 \text{ (aq)} + __ \text{H}_3\text{PO}_4 \text{ (aq)} \rightarrow __ \text{H}_2\text{O (g)} + __ \text{Ca}_3\text{(PO}_4)_2 \text{ (s)}$ is balanced, how many moles of water will be produced for each mole of calcium phosphate?	Multiple Choice	Chemistry	11
<input type="checkbox"/> In what city was the Declaration of Independence signed?	Multiple Choice		
<input type="checkbox"/> Which of the following is an example of a physical change?	Multiple Choice	Chemistry	12
<input type="checkbox"/> This chemical compound occurs naturally in tea and coffee and is a popular additive to soft drinks.	Multiple Choice	Chemistry	11
<input type="checkbox"/> Sodium bicarbonate is one of many ingredients used in making a cake. What is sodium bicarbonate commonly know as?	Multiple Choice	Chemistry	11
<input type="checkbox"/> For each mole of sugar, how many moles of oxygen are required to balance the following chemical equation? $1 \text{ C}_{12}\text{H}_{22}\text{O}_{11} + ? \text{ O}_2 \rightarrow 12 \text{ CO}_2 + 11 \text{ H}_2\text{O}$	Multiple Choice	Chemistry	10
<input type="checkbox"/> The Treaty of Versailles was one of the peace treaties at the end of World War I. In 1919, the treaty ended the state of war between Germany and the Allied Powers. It was signed in what month?	Multiple Choice	Government	11

All questions in the bank appear. To filter the list by keyword, question type, subject, and grade level, tap **Toggle Filters**.

Note: If you look through the bank and realize there is not a question that you want to add to your quiz, tap **Cancel** at the bottom of the screen to return to your quiz. Do not tap or press your phone or tablet's **Back** button; if you do, you will return to the list of assignments for that class and lose any questions you already created.

- Tap the box next to each question you want to add to your quiz, and then tap **ADD QUESTIONS** at the bottom of the screen. The Review Questions screen appears:

Type	Question	Answer	Points	Edit
Multiple Choice	When the following equation: $__ \text{Ca(OH)}_2 \text{ (aq)} + __ \text{H}_3\text{PO}_4 \text{ (aq)} \rightarrow __ \text{H}_2\text{O (g)} + __ \text{Ca}_3\text{(PO}_4)_2 \text{ (s)}$ is balanced, how many moles of water will be produced for each mole of calcium phosphate?	6	0	Edit

Gradebook total points: 0

Add Another Question

NEXT QUIZ OPTIONS » Cancel

When you add a question from the Question Bank, you need to determine how many points that question will be worth on this specific quiz.

- Next to the question or questions, tap **Edit**. The Edit Question screen automatically brings you to the **Points** field:

Create Quiz

Edit Question STATES OF MATTER

* Type
Multiple Choice

* Points
0

* Question
When the following equation:
___Ca(OH)2 (aq) + ___H3PO4 (aq) -> ___H2O (g) + ___Ca3(PO4)2 (s)

* Choices

1 Correct [X]

4 Correct [X]

5. Type the points value, and tap **NEXT: QUIZ OPTIONS »** at the bottom of the screen. The Review Questions screen appears again:

Create Quiz

Review Questions STATES OF MATTER

Type	Question	Answer	Points	Edit
Multiple Choice	Melting is the change in state of a	solid to a liquid.	1	Edit

Gradebook total points: 1

Add Another Question

NEXT: QUIZ OPTIONS » Cancel

6. Do one of the following:
- Tap **Add Another Question** to add more questions, which are either questions you [create from scratch](#) or from the Question Bank.
 - Tap **NEXT: QUIZ OPTIONS »** to finish creating your quiz.

Create Quiz Questions from Scratch in Aspen IMS Mobile

If questions already in your Question Bank will not work for this quiz, you can create new questions from scratch. You can also save these new questions to your Question Bank to use again.

To create quiz questions from scratch:

1. On the 'Create a New Question' screen, tap in each of the fields to enter the information for the question.
2. At the **Type** field, select either **Multiple Choice** or **Short Answer**.
3. If you select **Multiple Choice**, enter how many points the question is worth in the **Points** field.
4. In the **Question** field, type the question text.
5. Do one of the following:
 - For short-answer questions, type the answer. Aspen IMS does not score spelling or capitalization.
 - For multiple-choice questions, four empty **Choice** fields appear. Enter the text of each choice, and tap the **Correct** checkbox next to the correct answer.

Note: If you want to offer only two choices, click the [X] next to the blank choice lines you need to delete. If you want to offer more than four choices, tap **Add Another Choice** to get another blank **Choice** field.

6. To add this question to the Question Bank to use on another quiz, tap **Add to Shared Question Bank**. If you do tap this, you can select a specific **Subject** and/or **Grade Level** to store this question in so that you can find it easily next time.
7. Tap **Next: Add and Review Questions**. The Review Questions screen appears:

Type	Question	Answer	Points	Edit
Multiple Choice	Melting is the change in state of a	solid to a liquid.	1	Edit

Gradebook total points: 1

Add Another Question

NEXT QUIZ OPTIONS » Cancel

8. You can continue to add more questions, or tap **NEXT: QUIZ OPTIONS »** to finish creating the quiz.

Define Quiz Options in Aspen IMS Mobile

After you define all the questions for your quiz, you are almost done.

To finish creating your quiz:

1. After you define all questions and their point values, tap **NEXT: QUIZ OPTIONS »**. The Quiz Options screen appears:

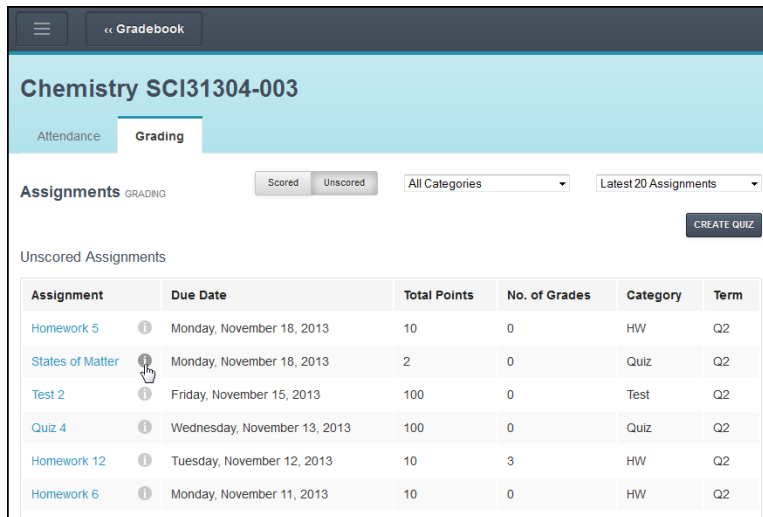
2. In the **Due Date** field, type the date you want students to take this quiz.
3. In the **Questions Per Page** field, enter the number of questions you want to appear on each screen. Aspen IMS Mobile lets you know how many total questions you have defined for this quiz to help you determine this number.
4. If you want students to be able to tap **Back** to view how they answered a previous question, tap the **Students can review their answers** checkbox. Otherwise, students can only tap **Next**.
5. To have each student view the questions on the quiz in a different order, tap the **Present questions in random order** checkbox.
6. To finalize the quiz, tap **CREATE QUIZ**.

Note: Once you tap **CREATE QUIZ**, you cannot edit the quiz or its questions.

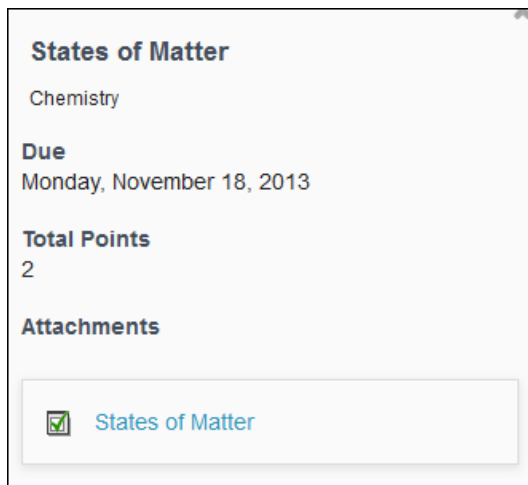
Students can access the quiz using the Student portal any date between the date you created it and the date you entered in the **Due Date** field.

Preview a Quiz in Aspen IMS Mobile

To see what your students will see when taking the quiz, tap the **Assignment Information** icon ⓘ next to the assignment name:



The Assignment Details pop-up appears:



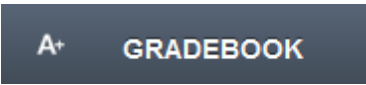
Tap the quiz name to open it.

Scoring an Online Quiz Using Aspen IMS Mobile

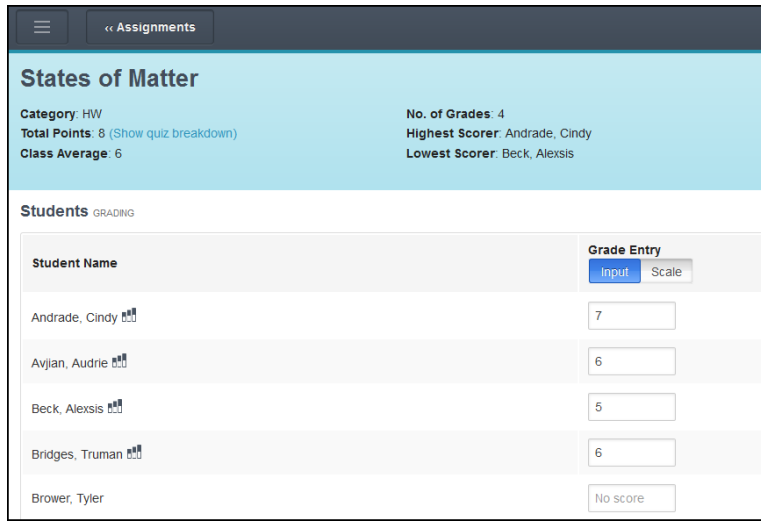
Once your students begin taking and saving their quizzes using the Student portal, you can immediately see how they are doing on your tablet or phone.

To see online quiz scores:

1. Log on to Aspen IMS Mobile.

2. Tap .

3. Tap the class name.
4. Tap the quiz name. The Grading screen for the quiz appears:

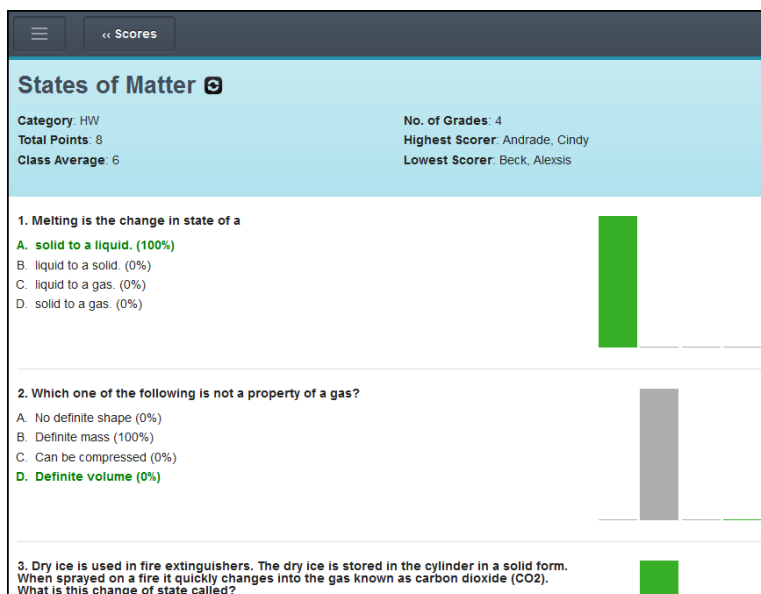


Student Name	Grade Entry
Andrade, Cindy	7
Avjian, Audrie	6
Beck, Alexis	5
Bridges, Truman	6
Brower, Tyler	No score

The top of the screen lists the quiz details.

Aspen IMS displays the score it calculates for each student in the **Grade Entry** column.

5. Tap a score to edit it.
6. Do the following to view your class and student statistics for this quiz:
 - In the quiz details at the top of the page, tap **Show quiz breakdown**:



For each question, Aspen IMS displays each possible answer and the percentage of students who selected it. This information is also shown in a bar graph.

- On the Scores screen, tap the **Bar graph** icon next to a student's name:

Student Name	Grade Entry
Andrade, Cindy 	<input type="button" value="Input"/> <input type="button" value="Scale"/>
	<input type="text" value="7"/>

The screen displays each question with the answer this student selected, and the number of points he or she earned per question:

← Scores

Andrade, Cindy STATES OF MATTER Category: HW

Score: 7 Class Average: 5.1

Total Points: 8 Total Points: 8

1. Melting is the change in state of a Points Earned: 1

A. **solid to a liquid.** STUDENT RESPONSE

B. liquid to a solid.

C. liquid to a gas.

D. solid to a gas.

2. Which one of the following is not a property of a gas? Points Earned: 1

A. No definite shape

B. Definite mass

C. Can be compressed

D. **Definite volume** STUDENT RESPONSE

3. Dry ice is used in fire extinguishers. The dry ice is stored in the cylinder in a solid form. When sprayed on a fire it quickly changes into the gas known as carbon dioxide (CO₂). What is this change of state called? Points Earned: 1