



Assessments: Generating Assessment Reports

You can generate reports to determine how well students are performing on assessments.

There are four reports for quizzes:

- **Performance** report provides each student's answer to quiz questions and provides statistics on which answers students selected. You can generate a performance report on surveys.
- **Item Statistics** displays performance statistics on an individual question by person. Or, you can choose to run statistics on an individual question for the whole class.
- **Summary Statistics** show the mean score either by person or by class on a particular assessment.
- **Class Statistics** display class performance on individual questions.

TERMS TO KNOW	
Attempts	The number of responses to a question. A low number of attempts might indicate the item was not well worded or that the test was too long.

TERMS TO KNOW	
Discrimination	<p>Indicates how well a question distinguishes between students who have a high quiz score and those who have a low score. The discrimination number is always between 1 and -1. A negative number indicates that the lower-scoring students performed better on this question than the high-scorers.</p> <p>For example, a score of -.05 may suggest that the question is not reliable. You might choose to not count this item for the assessment, or reword it for the next assessment.</p>
Frequency	<p>The number of times an answer was chosen or given by a student. This can differ from the number of attempts if a student chooses to not answer a question or if there are multiple attempts at a question. This indicates if your multiple-choice test had good distracters, if it was too easy, or if the instructor made an error in presenting a certain piece of material (e.g., all students chose wrong answer).</p>
Mean	<p>Percent representing the average quiz score or the average frequency that an answer was given by students. A high mean could indicate the test was easy; a lower mean, the test too hard or material not covered thoroughly.</p>
Standard Deviation (SD)	<p>An average of the amount that the results deviate from the average score. The greater the standard deviation, the less reliable is the test.</p>
Upper 25%	<p>The group of students whose score is in the upper 25% of the class. If you're evaluating your assessment against a normal curve, this value should be 25% of the class.</p>
Lower 25%	<p>The group of students whose score is in the lower 25% of the class. Similar to Upper 25%.</p>

The Performance Report

Performance reports can be generated for individual quizzes and surveys. When you run a Performance Report, a table is generated. The table contains columns for:

- student's first and last name and user name
- the grade received and the number of attempts
- the score
- every question in the assessment

For question columns, you can view statistics showing how students answered the question. For example, for multiple choice questions, you can see a breakdown of how frequently each of the possible answers was selected.

To run a Performance Report:

1. From the Assessment Manager screen, from any of the tabs, locate the quiz for which you want to run a performance report and, from its ActionLinks menu click **View Reports**. The Assessment Reports screen appears.
2. From the Assessment title drop-down list, select the assessment.
3. Under *Select a Report Type*, select **Performance**. The Performance Report screen appears.

Performance						
Title: Biology Quiz						
Grade: The grade is based on the first attempt.						
Show All Records		Query		Manage Columns		Download Records
Last name	First name	User name	Grade	Attempt	Score	Carbon Dioxide
						Multiple Choice
Kennedy	Kieran	kkennedy	7/30	1	7	Over 1000 years

4. To view a student's paragraph question response, click **View Answer**.
5. To see statistics for a specific question, click the linked question title and, from the menu that appears, click **Statistics**. A screen containing the question and a table of response summary data appears which shows how many students answered the question in a particular way.

Note: The Performance report generated for surveys is similar to the Performance report for quizzes, except that student names are not provided.

The Item Statistics Report

Item Statistics display the performance for individual questions while comparing the performance of selected students to that of the entire class. Item Statistics reports are available for quizzes and can be generated for the class as a whole, or for all individuals in a class. In addition, to the columns appearing in the figure below, mean, standard deviation and a comparison to the whole class's performance (comparing attempts, percentiles, discrimination, mean, standard deviation).

Item Statistics
 Title: **Biology Quiz**
 Report criterion: All Class

[Download Records](#)

Question Title	N	Percent Answering Correctly			Discrimination	Mean	Standard Deviation	Class Performance				
		Whole Group	Upper 25%	Lower 25%				N	Whole Group	Upper 25%	Lower 25%	Discrimination
The Greenhouse Effect	1	0.00	0.00	0.00	0.00	0.00%	0.00%	1	0.00	0.00	0.00	
Carbon Dioxide Residence Time	1	0.00	0.00	0.00	0.00	0.00%	0.00%	1	0.00	0.00	0.00	
Darwin and Linnaeus	1	0.00	0.00	0.00	0.00	70.00%	0.00%	1	0.00	0.00	0.00	
Mean Attempt Score*						23.33%	0.00%					

The Summary Statistics Report

The Summary Statistics report provides the mean score either by person or by class on a particular assessment.




Summary Statistics
 Title: **Final Exam**

[Download Records](#)

User ID	N	Mean*	Standard Deviation
aboroditsky	1	26.67%	0.00%
ksvenson	1	20.83%	0.00%
webct_demo_80491000	1	47.50%	0.00%
Totals	3	31.67%	14.02%

The Class Statistics Report

The Class Statistics report shows a question-by-question analysis of the performance of an entire section on a quiz. One class value for each question is displayed for each of: Attempts, Percent Answering Correctly, Discrimination, Mean, and Standard Deviation.

Class Statistics								
Title: Biology Quiz								
<input type="button" value="Download Records"/>								
Question Title	N	Percent Answering Correctly			Discrimination	Mean	Standard Deviation	Actions ?
		Whole Group	Upper 25%	Lower 25%				
The Greenhouse Effect	1	0.00	0.00	0.00	0.00	0.00%	0.00%	
Carbon Dioxide Residence Time	1	0.00	0.00	0.00	0.00	0.00%	0.00%	
Darwin and Linnaeus	1	0.00	0.00	0.00	0.00	70.00%	0.00%	
Mean Attempt Score *						23.33%		