

Run an Item Analysis

Overview

This tutorial will show you how to run an **Item Analysis**. After deploying a Test, you can run an Item Analysis to examine Test data and determine your questions' reliability and validity. The Item Analysis can help you identify questions that many students found difficult, perhaps due to poor wording or inadequate coverage, making it a useful tool when grading.

Quick Steps

Control Panel > Grade Center > Contextual Menu > Item Analysis > Run > Available Analysis

Step 1

To perform an Item Analysis, you will need to locate the Test you would like to analyze. The Test must be deployed, and there must be student responses to the Test; otherwise, the Item Analysis will have no data to compile.

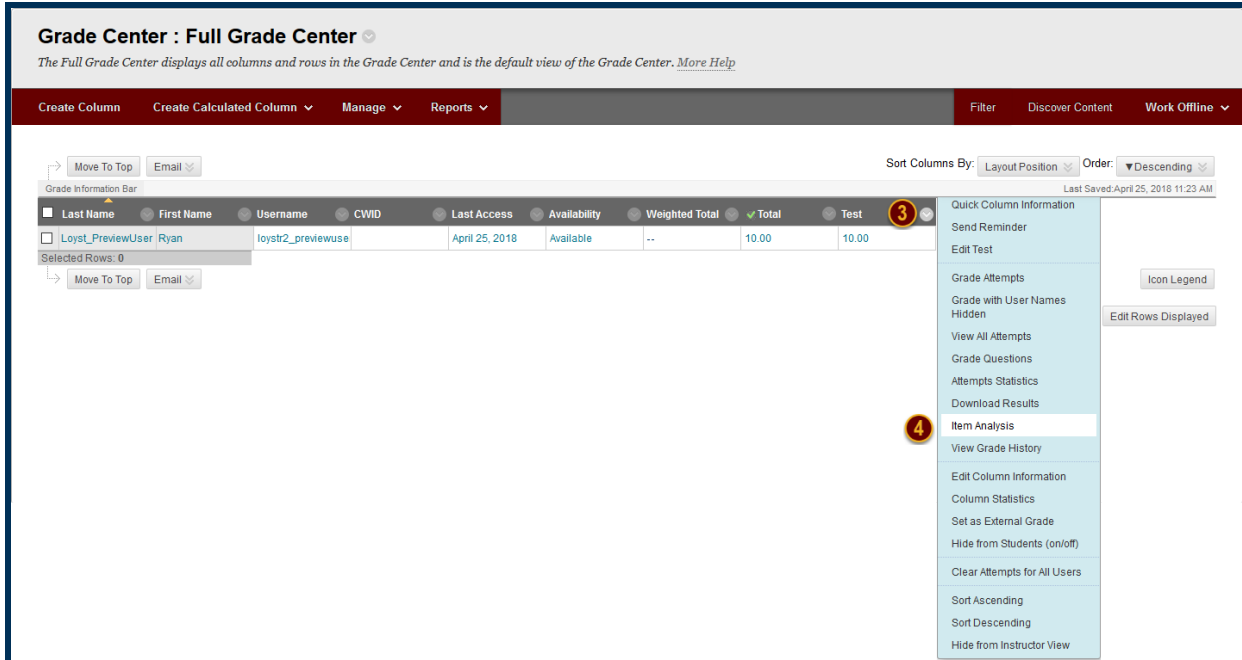
There are three ways to access the Item Analysis option for a Test:

Option 1

One way requires opening the Full Grade Center. The Full Grade Center can be found in the *Course Management* navigation pane beneath the *Control Panel* section. Click on *Grade Center* [1], and then click on the "Full Grade Center" option [2].



Next, locate the desired Test's column in the Grade Center and click on the grey, drop-down arrow that follows the Test's title to open the Item Options menu [3]. Then, select the "Item Analysis" option [4].



Grade Center : Full Grade Center
 The Full Grade Center displays all columns and rows in the Grade Center and is the default view of the Grade Center. [More Help](#)

Sort Columns By: Layout Position Order: Descending

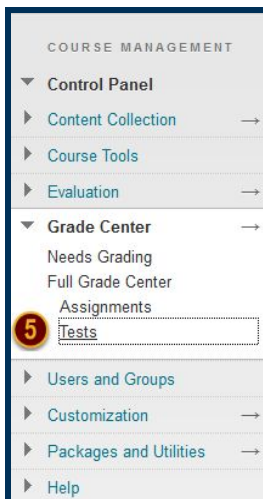
Last Name	First Name	Username	CWID	Last Access	Availability	Weighted Total	Total	Test
Loyst_PreviewUser	Ryan	loyst2_previewuse		April 25, 2018	Available	--	10.00	10.00

Item Options Menu:

- Quick Column Information
- Send Reminder
- Edit Test
- Grade Attempts
- Grade with User Names Hidden
- View All Attempts
- Grade Questions
- Attempts Statistics
- Download Results
- Item Analysis**
- View Grade History
- Edit Column Information
- Column Statistics
- Set as External Grade
- Hide from Students (on/off)
- Clear Attempts for All Users
- Sort Ascending
- Sort Descending
- Hide from Instructor View

Option 2

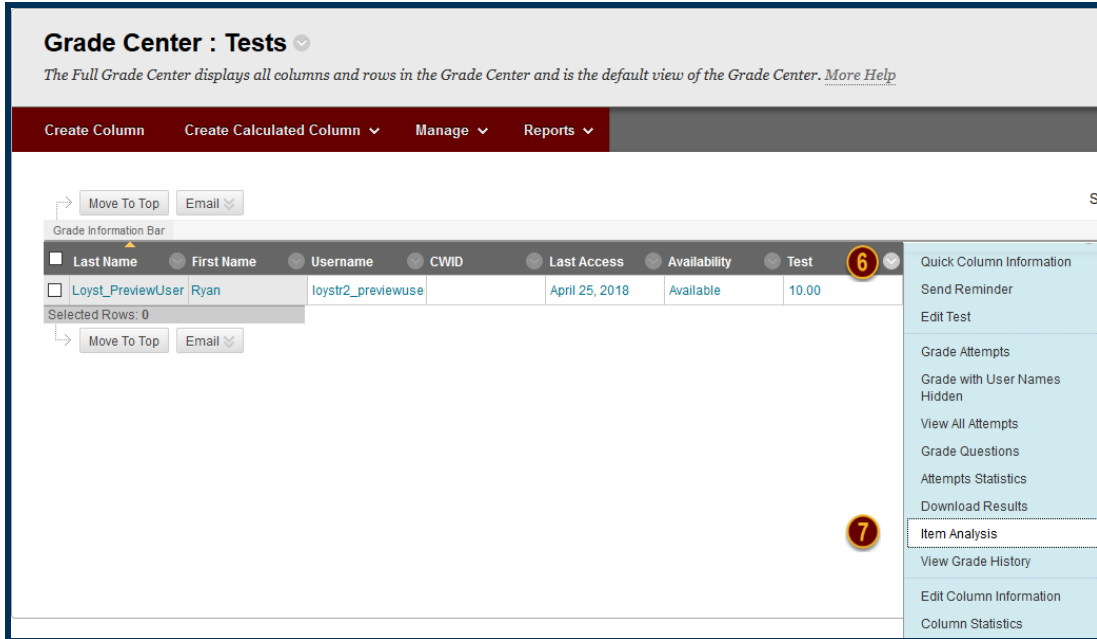
An alternative approach is to access the Tests Grade Center. This option is helpful if you have many assignments and have trouble locating the Test you wish to analyze. In the *Course Management* navigation pane, beneath the *Control Panel* section, click on *Grade Center*. Now, click on the "Tests" option [5].



COURSE MANAGEMENT

- Control Panel
 - Content Collection →
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 - Full Grade Center
 - Assignments
 - Tests**
- Users and Groups
- Customization →
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- Help

Locate the desired Test's column in the Grade Center and click on the grey, drop-down arrow that follows the Test's title to open the Item Options menu [6]. Then, select the "Item Analysis" option [7].



Grade Center : Tests ▼
The Full Grade Center displays all columns and rows in the Grade Center and is the default view of the Grade Center. [More Help](#)

Create Column Create Calculated Column ▼ Manage ▼ Reports ▼

Grade Information Bar

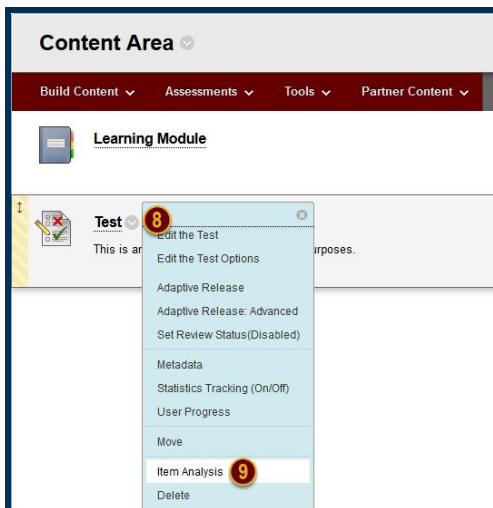
☐	Last Name	First Name	Username	CWID	Last Access	Availability	Test	6
☐	Loyst_PreviewUser	Ryan	loyst2_previewuse		April 25, 2018	Available	10.00	7

Selected Rows: 0

- Quick Column Information
- Send Reminder
- Edit Test
- Grade Attempts
- Grade with User Names Hidden
- View All Attempts
- Grade Questions
- Attempts Statistics
- Download Results
- Item Analysis**
- View Grade History
- Edit Column Information
- Column Statistics

Option 3

A third alternative is to find the Test you wish to analyze by navigating to its location within a Content Area or Learning Module. Once you have located the Test, click on the grey, drop-down arrow that follows the Test's title to open the Item Options menu [8]. Then, select the "Item Analysis" option [9].



Content Area ▼

Build Content ▼ Assessments ▼ Tools ▼ Partner Content ▼

Learning Module

Test 8

- Edit the Test
- Edit the Test Options
- Adaptive Release
- Adaptive Release: Advanced
- Set Review Status(Disabled)
- Metadata
- Statistics Tracking (On/Off)
- User Progress
- Move
- Item Analysis** 9
- Delete

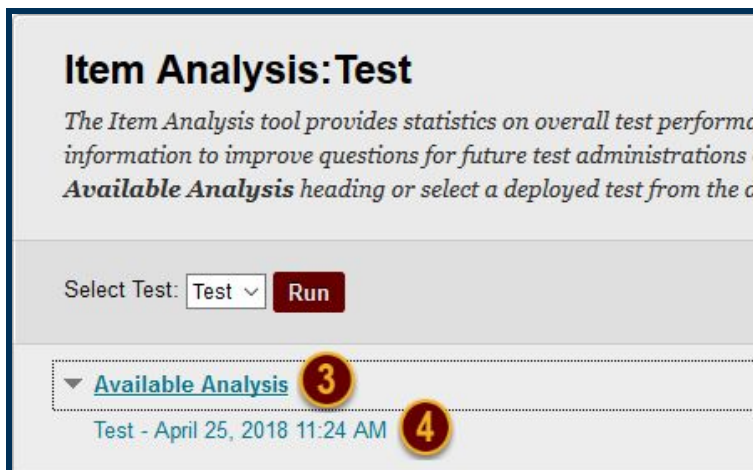
Step 2

The Item Analysis:Test page should appear on your screen. Use the drop-down list that follows the Select Test field [1] to choose the Test you will analyze, and then click the *Run* button [2].



Step 3

When the Item Analysis is complete, the report will appear under the *Available Analysis* section. You may need to click on *Available Analysis* to expand the section [3]. The report will be listed with the Test's title, the date the report was run, and the time it was created [4].



Running an Item Analysis can take some time, especially for long Tests or for large sections of a course. If the Item Analysis does not appear right away, don't worry! You will receive an email when the report is complete [5].

Reply Reply All Forward

do-not-reply@blackboard.com | Loyst, Ryan David | Wed 11:24 AM

Item Analysis of Test ran successfully

Course ID: BBTRAINING_1_rl Item Analysis of Test successfully ran on April 25, 2018 11:24 AM. To view it, access your Blackboard Learn course and navigate to Item Analysis. Note: This Item Analysis is based on graded submissions as of April 25, 2018 11:24 AM. Run the Item Analysis again to view the latest data.

Step 4

When viewing the Item Analysis, you will notice that many new statistics have become available.

The *Test Summary* [6] lists the Test's data, including possible points, possible questions, in progress attempts, average score, and average time spent taking the Test. The *Discrimination* table [7] lists questions that Blackboard has deemed good, fair, or poor, and the *Difficulty* table [8] lists questions that Blackboard considers easy, medium, or hard, based upon student responses.

For a more detailed analysis, you can use the *Filter Questions* [9] grid to examine questions in greater depth, and the Legend will guide you on identifying questions that may need additional review.

Select Test: Test

Available Analysis
Test - April 25, 2018 11:24 AM

Test
Analysis Last Run April 25, 2018 11:24 AM. Run Item Analysis again to display the latest question data.

Test Summary [6]

Possible Points	Possible Questions	In Progress Attempts	Completed Attempts	Average Score	Average Time
20.0	2	0	1	10.0	00 hr 00 min

Discrimination [7]

0 Good Questions	0 Fair Questions	0 Poor Questions	2 Cannot Calculate
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Difficulty [8]

1 Easy Questions	0 Medium Questions	1 Hard Questions
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Filter Questions [9]

Select Question Type: All Question Types | Select Discrimination: All Discrimination | Select Difficulty: All Difficulty |

Question	Question Type	Discrimination	Difficulty	Graded Attempts	Average Score	Std Dev	Std Error
Item Analysis: What is an Item Analysis?	Multiple Choice	Cannot Calculate	0.0%	1	0.0	0.0	0.0
Step Order: Put the following steps to conduct an Item Analysis in chronological order.	Ordering	Cannot Calculate	100.0%	1	10.0	0.0	0.0

Displaying 1 to 2 of 2 items |

Legend

- Review recommended
- Questions might have changed after deployment
- Not all submissions have been graded
- (QS) Question Set
- (RB) Random Block