



Item Analysis Reports

Creating an Item Analysis report

The Edusoft Item Analysis report uses standard measurements for reliability, difficulty, and discrimination to help you analyze both assessments as a whole and specific items.

To determine the validity of an assessment, Edusoft calculates item difficulty, discrimination, P-Biserial, and KR-20 values. To determine the areas where students are struggling, Edusoft lets you drill down to the list of students who gave each answer for an assessment item. You can evaluate this list against the performance of any demographic group you select.

To create an Item Analysis report:

- 1 Click the **Teacher Tools** tab. Click the link or icon for **Tools & Analysis**.
 - 2 Click the link or icon for the **Item Analysis Report**.
 - 3 Choose a folder and an assessment, and click **Continue**.
- Tip:** To generate this report quickly, simply click **Continue** to view the results for all students who took the exam. You can refine the group of students later if you want.
- 4 Select all or specific periods to include. To select specific periods, click **Specific** and click **Select Periods**. Click check boxes for the periods you want to include and click **Continue**.
 - 5 If needed, use the links in the Select Students Based On area to select grades, ethnicities, Ed programs, custom groups, genders, courses, or rosters.
 - 6 When you have finished selecting options, click **Run report now**.

Tip: You can save these report options to be used for other similar reports.

About Item Analysis reports

The Item Analysis report consists of the options dashboard at the top, and an item analysis section for each type of question (multiple choice, short answer, long answer, and weighted rubric). It also displays values for quality measurements that Edusoft calculates.

Currently Selected Options			
Exam:	Reading Comp 2	Roster:	2005-2006 Fall, School Year
Schools:	Oak Hill High School	Grades:	All
Teachers:	Megan Anderson	Ethnicities:	All
Ed Programs:	All	Custom Groups:	All
Genders:	All	Courses:	All
Periods:	All	Test Delivery:	All

The Kuder-Richardson 20 reliability value for this exam with these student selections is .2

You can use the Options Dashboard to view results for other students.

Click to view definitions of terms used in this report.

What do these terms mean?
Group by: Section GO

Analyzing 175 students

This is the number of students in the current sample.

You can sort a section using its sort by link.

Item	% Correct	Discrimination	A	B	C	D
Section 1 -> 1	66%	0.36	115*	18	18	24
Section 1 -> 2	73%	0.19	13	127*	18	17
Section 1 -> 3	74%	0.23	19	8	130*	18

Use these links to drill down to a list of students who chose specific answers.

The correct answers for multiple choice questions are bolded and marked with an asterisk (*).

Item	% Correct	Discrimination	Correct	Incorrect
Section 2 - Short Answer -> 6	74%	0.43	129	46
Section 2 - Short Answer -> 7	71%	0.53	124	51
Section 2 - Short Answer -> 8	77%	0.30	134	41

The answer choices for short answer questions are correct and incorrect.

Item	% Correct	0	1	2	3	4	5	6	7	8	9	10
Section 3 -> 11	75%	0	0	0	0	0	0	8	85	74	8	0
Section 3 -> 12	75%	0	0	0	0	0	0	8	85	74	8	0

These answer choices are the possible point values.

Item	% Correct	0	1	2	3
Section 4 - Long Answer -> 13	74%	24	14	22	115

These answer choices are the possible rubric scores.