



Week 13: 2/10 - 2/14

This Weeks Feature:



Lead4ward and Eduphoria Data Analysis

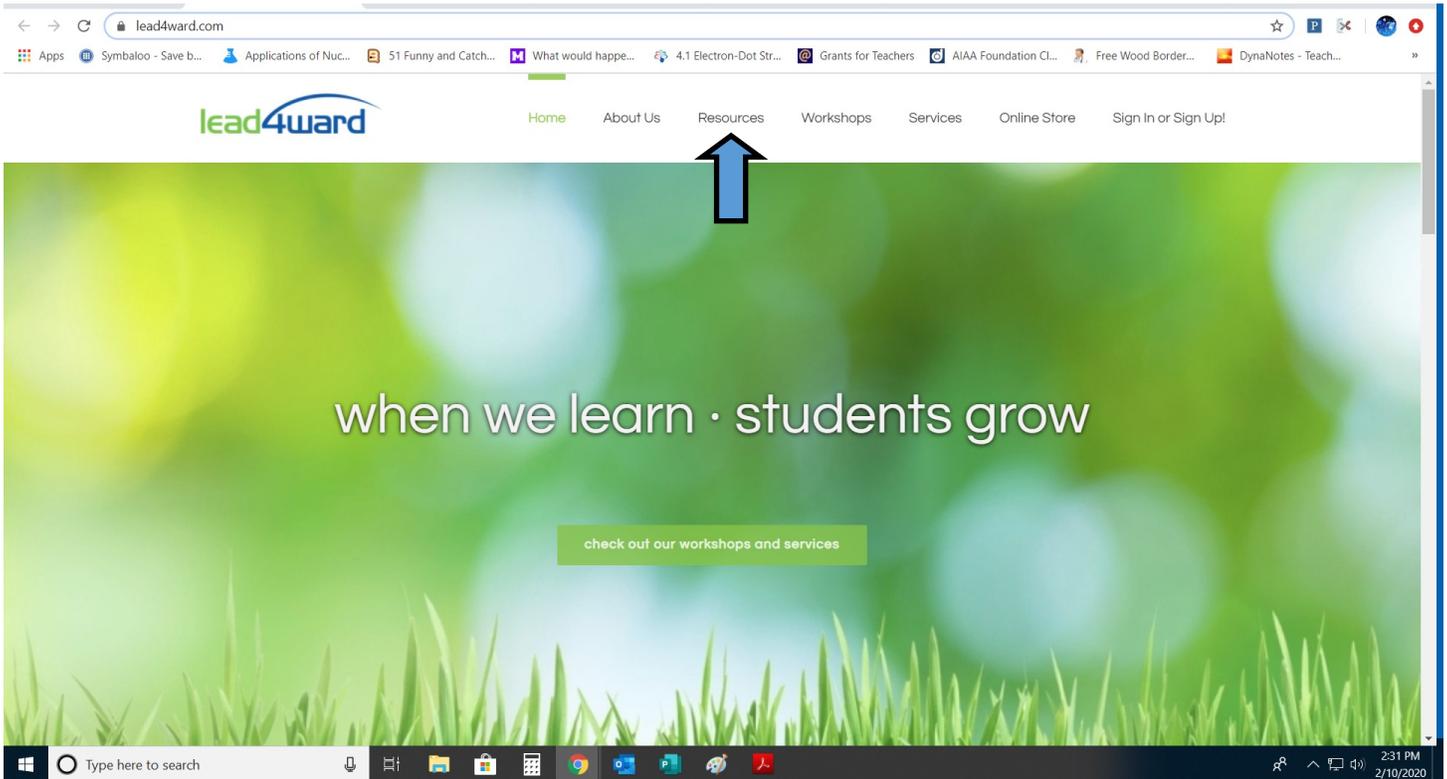


With our benchmark testing right around the corner, here is an easy and outstanding way to analyze your benchmark data. Take the IQ–released items analysis tool and select the released STAAR test that you have given as your benchmark. Next take your overall Item Analysis data from Eduphoria and put the two together. You can hand write your information or use the PDF fill and sign tool. After you have finished entering your item analysis data for the entire test, you are now ready for a deep analysis of your benchmark testing.

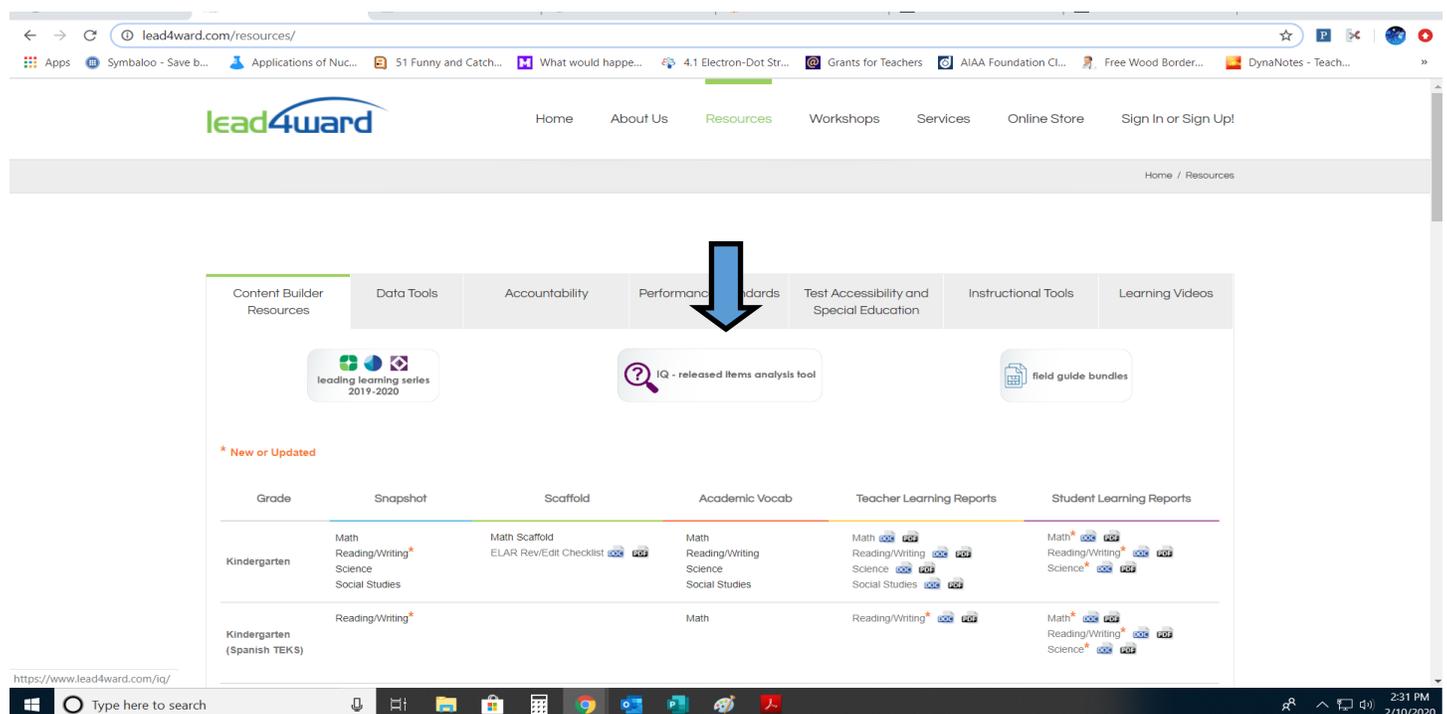
Analyzing your data can show the following information

- * **How did your students compare to state results**
- * **Is the issue an overall question problem or an educational gap**
- * **Identify what parts of a question students are struggling with**
- * **What kind of stimulus is used with this type of content questioning**
- * **Was there a distractor answer choice**
- * **Did the student stop working the problem to early and not finish all of the steps**
- * **Was the student just guessing**
- * **How to adapt instruction to help students improve the understanding and application of the particular student expectation**

How to find the IQ document on Lead4ward. From their homepage click on the Resources tab.



Next, click the IQ– released items analysis tool



When the IQ page loads select your content area that you tested.

lead4ward

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IQ: INVESTIGATING THE QUESTIONS

Released Items Analysis Tool

To customize yours, complete the steps below

- content area and grade level
- filter
- TEKS clusters
- student expectations
- years

Select the content area and grade level

Select content area ▾

Reset Next

Type here to search

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Next, select your tested grade level and click next.

Released Items Analysis Tool

To customize yours, complete the steps below

- content area and grade level
- filter
- TEKS clusters
- student expectations
- years

Select the content area and grade level

Science ▾

Grade 8 ▾

Reset Next

LEADING LEARNING SERIES

COOL THINGS TO CHECK OUT

RECENT TWEETS

learning videos & eguides

Type here to search

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Now, click on the Student Expectations option and click next.

The screenshot shows the 'filter' step of the 'Released Items Analysis Tool'. The progress bar indicates that 'content area and grade level' and 'filter' are completed, while 'TEKS clusters', 'student expectations', and 'years' are pending. Under the 'filter' step, there are three radio button options: 'TEKS Clusters', 'TEKS Subcluster', and 'Student Expectations'. A blue arrow points to the 'Student Expectations' option. Below the options are 'Reset' and 'Next' buttons.

When you list of student expectations screen appears select all.

The screenshot shows the 'student expectations' screen. The progress bar indicates that 'content area and grade level', 'filter', and 'student expectations' are completed, while 'years' is pending. A blue arrow points to the 'Select All' checkbox at the top of the list. The list contains 20 checkboxes, each followed by a TEKS code (e.g., 6.6(A), 6.6(B), etc.).

Select the student expectations*			
<input checked="" type="checkbox"/>	Select All		
<input checked="" type="checkbox"/>	6.6(A)	<input checked="" type="checkbox"/>	6.6(B)
<input checked="" type="checkbox"/>	6.6(C)	<input checked="" type="checkbox"/>	6.6(D)
<input checked="" type="checkbox"/>	6.8(A)	<input checked="" type="checkbox"/>	6.8(B)
<input checked="" type="checkbox"/>	6.8(C)	<input checked="" type="checkbox"/>	6.8(D)
<input checked="" type="checkbox"/>	6.9(C)	<input checked="" type="checkbox"/>	6.11(B)
<input checked="" type="checkbox"/>	6.11(C)	<input checked="" type="checkbox"/>	6.12(D)
<input checked="" type="checkbox"/>	7.5(B)	<input checked="" type="checkbox"/>	7.6(A)
<input checked="" type="checkbox"/>	7.6(B)	<input checked="" type="checkbox"/>	7.8(C)
<input checked="" type="checkbox"/>	7.7(A)	<input checked="" type="checkbox"/>	7.10(B)
<input checked="" type="checkbox"/>	7.10(C)	<input checked="" type="checkbox"/>	7.11(C)
<input checked="" type="checkbox"/>	7.11(D)	<input checked="" type="checkbox"/>	7.12(B)
<input checked="" type="checkbox"/>	7.12(E)	<input checked="" type="checkbox"/>	7.12(F)
<input checked="" type="checkbox"/>	7.14(A)	<input checked="" type="checkbox"/>	7.14(B)
<input checked="" type="checkbox"/>	7.14(C)	<input checked="" type="checkbox"/>	7.14(D)
<input checked="" type="checkbox"/>	8.5(A)	<input checked="" type="checkbox"/>	8.5(B)
<input checked="" type="checkbox"/>	8.5(C)	<input checked="" type="checkbox"/>	8.5(D)
<input checked="" type="checkbox"/>	8.5(E)	<input checked="" type="checkbox"/>	8.6(A)
<input checked="" type="checkbox"/>	8.6(B)	<input checked="" type="checkbox"/>	8.6(C)
<input checked="" type="checkbox"/>	8.7(A)	<input checked="" type="checkbox"/>	8.7(B)
<input checked="" type="checkbox"/>	8.7(C)	<input checked="" type="checkbox"/>	8.8(A)

Scroll down the student expectation page and then click next.

lead4ward.com/iq/

7.5(B) 7.6(A) 7.8(C) 7.10(B)
7.10(C) 7.11(A) 7.11(C) 7.12(B)
7.12(D) 7.12(F) 7.14(B) 7.14(C)
8.5(A) 8.5(B) 8.5(C) 8.5(D)
8.5(E) 8.6(A) 8.6(B) 8.6(C)
8.7(A) 8.7(B) 8.7(C) 8.8(A)
8.8(B) 8.8(C) 8.9(A) 8.9(B)
8.9(C) 8.10(A) 8.10(B) 8.10(C)
8.11(A) 8.11(B) 8.11(C)

*SEs not listed have not yet been tested

Previous Next

Type here to search

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The new screen will now have you choose the year that you are looking for. Select your year and hit submit

IQ: INVESTIGATING THE QUESTIONS

Released Items Analysis Tool

To customize yours, complete the steps below

content area and grade level filter student expectations years

Select your years

Assessment items from 2013-18 were aligned with the streamlined standards that were implemented in the 2018-19 school year.

Select All
2019 2018 2017 2016
2015 2014 2013

Previous Submit

2018 STAAR 8th Sc...pdf

Show all

Type here to search

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Your IQ document will now load. Once it does click Save IQ as a PDF.

lead4ward.com/iq/createiq.php

Save IQ as PDF



lead4ward

IQ: INVESTIGATING THE QUESTIONS

2019 Released Tests

Aligned to the Standards

CONTENT BUILDER FOR THE PLC

When you open your PDF this is what the first page of the IQ looks like. This page is useful as it explains how to read the document. I would go ahead and print the document out now.

2019 STAAR 8th Science.pdf - Adobe Acrobat Reader DC

File Edit View Window Help

Home Tools 2019 STAAR 8th Sci... x

1 / 50 100%

IQ Analysis | Investigating the Question – Released Tests User Guide

SE #	RC #
Units	
SE# Student Expectation	
[Year] [Question #]	
Analysis of Assessed Standards	
Cluster	
Subcluster	
Content	
Process	
Stimulus	
Data Analysis	
Item	State Local Error Analysis
	<input type="checkbox"/> Guessing
	<input type="checkbox"/> Careless Error
	<input type="checkbox"/> Stopped Too Early
	<input type="checkbox"/> Mixed Up Concepts
Learning from Mistakes	
Instructional Implications	

Student Expectation/Reporting Category
DISCUSS: How many questions for this Student Expectation were asked over the past years? Which parts were assessed?

Units
COMPLETE: Note the units in which the student expectation is taught.

Analysis of Assessed Standards
DISCUSS and NOTE: Review the cluster, subcluster, and content/process standards assessed for each item.

Stimulus
COMPLETE: Note visual representation used. DISCUSS and NOTE: How many different stimuli were used to assess this student expectation?

State-Level SE Data and Error Analysis
COMPLETE: Add local data for the item. DISCUSS and NOTE: What are the most common error patterns?

Learning from Mistakes
DISCUSS and NOTE: What patterns in learning errors emerged across items? What is the best way to respond to those error patterns?

Year of test and question number

Interesting Item
DISCUSS: What can we learn from this item to inform instruction?

Item

Next, open your benchmark testing data in Eduphoria.

The screenshot shows the Eduphoria 'Aware' interface. The main content is a table titled '8th Grade Science 2019 Released STAAR'. The table has columns for Student Name, Local ID, Special Ed Indicator, LEP, Gender, Ethnicity, Raw Score, Percent Score, Approaches Grade Level, Meets Grade Level, Masters Grade Level, and Date Taken. A blue box highlights the 'Student Name' column. The table contains 20 rows of student data.

Student Name	Local ID	Special Ed Indicator	LEP	Gender	Ethnicity	Raw Score	Percent Score	Approaches Grade Level	Meets Grade Level	Masters Grade Level	Date Taken
		No	Other Non-LEP Student	Male	White	28	67%		No	No	12/16/19
		No	Other Non-LEP Student	Female	Hispanic	22	52%		Yes	No	12/16/19
		No	Other Non-LEP Student	Female	Hispanic	21	50%		No	No	12/16/19
		No	Other Non-LEP Student	Female	Hispanic	26	62%		Yes	No	12/16/19
		No	Other Non-LEP Student	Male	Hispanic	20	48%		No	No	12/16/19
		No	Other Non-LEP Student	Female	Hispanic	23	55%		Yes	No	12/16/19
		Yes	Other Non-LEP Student	Male	Hispanic	14	33%		No	No	12/16/19
		No	Other Non-LEP Student	Female	Hispanic	21	50%		No	No	12/16/19
		No	Other Non-LEP Student	Female	Hispanic	24	57%		Yes	No	12/16/19
		No	Other Non-LEP Student	Male	Hispanic	13	31%		No	No	12/16/19
		No	Other Non-LEP Student	Female	White	33	79%		Yes	Yes	12/16/19
		No	Other Non-LEP Student	Male	Hispanic	21	50%		No	No	12/16/19
		No	Other Non-LEP Student	Male	Hispanic	28	67%		Yes	No	12/16/19
		No	Other Non-LEP Student	Female	Hispanic	27	64%		Yes	No	12/16/19
		No	Other Non-LEP Student	Female	Hispanic	35	83%		Yes	Yes	12/16/19
		Yes	Other Non-LEP Student	Male	White	23	55%		Yes	No	12/16/19
		No	Other Non-LEP Student	Female	Hispanic	24	57%		Yes	No	12/16/19

On the drop down menu select Student Individual Responses

The screenshot shows the Eduphoria 'Aware' interface with the 'Student Scores' dropdown menu open. The menu options are: Student Scores, Student Reporting Category Breakdown, Student Learning Standard Breakdown, Student Individual Responses (highlighted in blue), TELPAS Report, TELPAS Report for First Yr Students, Did Not Meet Expectations, Longitudinal Data, Looking Back (SE Level), Longitudinal Scale Scores, PERFORMANCE AND PROGRESS, Benchmark Student Learning Standards with AEIS, Avg, SE, and subgroup, and Benchmark Analyze Student Scores with EcoD. A blue arrow points to the 'Student Individual Responses' option.

Once you select the individual response button each student by individual response will open up. Next click on the globe to see overall campus data.

Export to Excel Print to PDF Export Grades

Student Individual Responses

Search Data

Student Individual Responses

Student Name	Local ID	Special Ed Indicator	LEP	Gender	Ethnicity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
						SC1	SC3	SC1	SC3	SC4	SC2	SC3	SC1	SC4	SC1	SC2	SC4	SC1	SC2	SC4	SC1
Other Non-LEP Student	Male	White				+B	+H	+A	J	+B	+J	+A	+G	D	+F	2700	H	+D	+G	+A	
Other Non-LEP Student	Female	Hispanic				+B	F	+A	J	C	+J	C	+G	B	+F	12	+G	C	H	B	
Other Non-LEP Student	Female	Hispanic				+B	+H	+A	J	+B	+J	B	F	B	+F	+1200	J	+D	J	+A	
Other Non-LEP Student	Female	Hispanic				D	+H	+A	+H	C	+J	+A	+G	D	+F	+1200	+G	+D	H	+A	
Other Non-LEP Student	Male	Hispanic				D	+H	+A	J	+B	+J	+A	H	A	+F	+1200	+G	C	J	+A	
Other Non-LEP Student	Female	Hispanic				+B	J	+A	J	+B	+J	+A	H	A	+F	+1200	F	+D	+G	+A	
Other Non-LEP Student	Male	Hispanic				D	+H	+A	J	+B	+J	C	+G	B	+F	2700	F	B	H	+A	
Other Non-LEP Student	Female	Hispanic				C	G	+A	+H	D	F	C	+G	B	+F	+1200	F	+D	+G	+A	
Other Non-LEP Student	Female	Hispanic				D	J	+A	G	C	+J	+A	+G	A	+F	2700	J	+D	+G	+A	
Other Non-LEP Student	Male	Hispanic				C	+H	+A	J	A	F	+A	+G	D	H	2700	F	A	+G	B	
Other Non-LEP Student	Female	White				+B	+H	+A	G	C	+J	+A	+G	+C	+F	+1200	+G	+D	H	+A	
Other Non-LEP Student	Male	Hispanic				+B	+H	+A	F	D	+J	+A	+G	+C	+F	2700	J	+D	+G	+A	
Other Non-LEP Student	Male	Hispanic				C	+H	+A	J	D	+J	C	+G	D	+F	+1200	+G	+D	+G	+A	
Other Non-LEP Student	Female	Hispanic				+B	+H	+A	J	C	F	+A	+G	+C	+F	+1200	+G	A	H	+A	
Other Non-LEP Student	Female	Hispanic				+B	+H	+A	+H	+B	+J	+A	+G	+C	+F	+1200	+G	+D	+G	+A	
Other Non-LEP Student	Male	White				+B	+H	+A	+H	C	+J	+A	+G	A	H	+1200	+G	+D	+G	+A	
Other Non-LEP Student	Female	Hispanic				+B	J	+A	J	+B	F	+A	+G	+C	H	+1200	F	+D	+G	+A	

You will now see all students combined for that test by question.

Export to Excel Print to PDF Export Grades

Student Individual Responses

Search Data

Student Individual Responses

Total Students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	SC1	SC3	SC1	SC3	SC4	SC2	SC3	SC1	SC4	SC1	SC2	SC4	SC1	SC2	SC4	SC2	
All Students	32	A (0%) +B (68.75%) C (12.5%) D (18.75%) * (0%)	F (3.12%) G (9.38%) +H (7.188%) J (15.62%) * (0%)	+A (96.88%) B (3.12%) C (0%) D (0%) * (0%)	F (15.62%) G (15.62%) +H (18.75%) J (50%) * (0%)	A (6.25%) +B (43.75%) C (37.5%) D (12.5%) * (0%)	F (28.12%) G (0%) H (0%) +J (71.88%) * (0%)	+A (71.88%) B (25%) C (25%) D (0%) * (0%)	F (3.12%) +G (84.38%) H (6.25%) J (6.25%) * (0%)	A (25%) B (25%) +C (31.25%) D (18.75%) * (0%)	+F (84.38%) G (0%) H (12.5%) J (3.12%) * (0%)	1200 (50%) NC (50%)	F (21.88%) +G (56.25%) H (6.25%) J (15.62%) * (0%)	A (6.25%) B (3.12%) +C (15.62%) D (75%) * (0%)	F (0%) +G (68.75%) H (18.75%) J (12.5%) * (0%)	+A (78.12%) B (12.5%) C (0%) D (9.38%) * (0%)	F (65.62%) G (3.12%) +H (31.25%) J (0%) * (0%)
Hispanic	22	A (0%) +B (59.09%) C (13.64%) D (27.27%) * (0%)	F (4.55%) G (13.64%) +H (68.18%) J (13.64%) * (0%)	+A (95.45%) B (4.55%) C (0%) D (0%) * (0%)	F (9.09%) G (13.64%) +H (22.73%) J (54.55%) * (0%)	A (9.09%) +B (36.36%) C (36.36%) D (18.18%) * (0%)	F (36.36%) G (0%) H (0%) +J (63.64%) * (0%)	+A (63.64%) B (4.55%) C (10%) D (0%) * (0%)	F (4.55%) +G (77.27%) H (9.09%) J (9.09%) * (0%)	A (18.18%) B (31.82%) +C (27.27%) D (22.73%) * (0%)	+F (81.82%) G (0%) H (13.64%) J (4.55%) * (0%)	1200 (50%) NC (50%)	F (27.27%) +G (45.45%) H (10%) J (22.73%) * (0%)	A (9.09%) B (4.55%) +C (22.73%) D (63.64%) * (0%)	F (0%) +G (63.64%) H (18.18%) J (13.64%) * (0%)	+A (72.73%) B (18.18%) C (0%) D (9.09%) * (0%)	F (59.09%) G (4.55%) +H (36.36%) J (0%) * (0%)
White	10	A (0%) +B (90%) C (10%) D (0%) * (0%)	F (0%) G (0%) +H (80%) J (20%) * (0%)	+A (100%) B (0%) C (0%) D (0%) * (0%)	F (30%) G (20%) +H (10%) J (40%) * (0%)	A (0%) +B (60%) C (40%) D (0%) * (0%)	F (10%) G (0%) H (0%) +J (90%) * (0%)	+A (90%) B (0%) C (10%) D (0%) * (0%)	F (0%) +G (100%) H (10%) J (10%) * (0%)	A (40%) B (10%) +C (40%) D (10%) * (0%)	+F (90%) G (0%) H (10%) J (0%) * (0%)	1200 (50%) NC (50%)	F (10%) +G (80%) H (10%) J (0%) * (0%)	A (0%) B (0%) +C (22.73%) D (100%) * (0%)	F (0%) +G (80%) H (10%) J (10%) * (0%)	+A (90%) B (0%) C (0%) D (10%) * (0%)	F (80%) G (0%) +H (20%) J (0%) * (0%)
Female	17	A (0%) +B (64.71%) C (11.76%) D (23.53%) * (0%)	F (5.88%) G (11.76%) +H (52.94%) J (29.41%) * (0%)	+A (100%) B (0%) C (0%) D (0%) * (0%)	F (17.65%) G (17.65%) +H (17.65%) J (47.06%) * (0%)	A (0%) +B (41.18%) C (47.06%) D (11.76%) * (0%)	F (23.53%) G (0%) H (0%) +J (76.47%) * (0%)	+A (64.71%) B (5.88%) C (5.88%) D (0%) * (0%)	F (5.88%) +G (82.35%) H (5.88%) J (5.88%) * (0%)	A (17.65%) B (29.41%) +C (47.06%) D (5.88%) * (0%)	+F (82.35%) G (0%) H (11.76%) J (5.88%) * (0%)	1200 (64.71%) NC (35.29%)	F (23.53%) +G (52.94%) H (5.88%) J (17.65%) * (0%)	A (5.88%) B (0%) +C (23.53%) D (82.35%) * (0%)	F (0%) +G (58.82%) H (23.53%) J (17.65%) * (0%)	+A (82.35%) B (11.76%) C (0%) D (5.88%) * (0%)	F (64.71%) G (0%) +H (35.29%) J (0%) * (0%)
		A (0%) +B (73.33%) C (11.76%) D (13.33%) * (0%)	F (0%) G (6.7%) +H (47.06%) J (33.33%) * (0%)	+A (93.33%) B (6.67%) C (0%) D (0%) * (0%)	F (13.33%) G (13.33%) +H (47.06%) J (26.67%) * (0%)	A (13.33%) +B (47.06%) C (47.06%) D (13.33%) * (0%)	F (33.33%) G (0%) H (0%) +J (66.67%) * (0%)	+A (80%) B (0%) C (0%) D (0%) * (0%)	F (0%) +G (86.67%) H (13.33%) J (0%) * (0%)	A (33.33%) B (0%) +C (66.67%) D (0%) * (0%)	+F (86.67%) G (0%) H (0%) J (0%) * (0%)	1200 (33.33%) NC (66.67%)	F (20%) +G (70%) H (10%) J (0%) * (0%)	A (6.67%) B (0%) +C (23.33%) D (70%) * (0%)	F (0%) +G (66.67%) H (0%) J (0%) * (0%)	+A (73.33%) B (0%) C (0%) D (26.67%) * (0%)	F (66.67%) G (0%) +H (33.33%) J (0%) * (0%)

Now go to the first TEKS of your IQ Document. It shows you the question number this question was on your released test.

2019 STAAR 8th Science.pdf - Adobe Acrobat Reader DC

Home Tools 2019 STAAR 8th Sci... x

4 / 50 100%

8.5(A) describe the structure of atoms, including the masses, electrical charges, and locations, of protons and neutrons in the nucleus and electrons in the electron cloud

2019 - Q29

The atomic number of krypton is 36. If the mass number of a krypton atom is 84, which table shows the number of subatomic particles inside and outside the nucleus of the krypton atom?

A

Number of Particles Inside Nucleus	Number of Particles Outside Nucleus
36	36

B

Number of Particles Inside Nucleus	Number of Particles Outside Nucleus
36	48

C

Number of Particles Inside Nucleus	Number of Particles Outside Nucleus
84	36

D

Number of Particles Inside Nucleus	Number of Particles Outside Nucleus
84	48

* Correct Answer (C)

Analysis of Assessed Standards

Cluster	Properties of Atoms
Subcluster	Structure of Atoms
Content	Readiness
Process	8.2(E)
Stimulus	

Data Analysis

Item	State	Local	Error Analysis
A	14		<input type="checkbox"/> Guessing <input type="checkbox"/> Careless Error <input type="checkbox"/> Stopped Too Early <input type="checkbox"/> Mixed Up Concepts
B	32		
C*	47		
D	7		

Learning from Mistakes
Instructional Implications

On your item analysis go to question #29 or whatever number your pulls up first and find the corresponding data.

springlakeearth.schoolobjects.com/aware/

Export to Excel Print to PDF Export Grades

Student Individual Responses

8th Grade Science 2019 Released STAAR

All Responses

Item	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
SC4	SC1	SC4	SC3	SC2	SC2	SC3	SC4	SC1	SC4	SC3	SC1	SC3	SC2	SC4	SC2	SC3	SC3	SC3	SC3
7.14(C) [S]	8.4(A) [P]	8.11(B) [R]	8.7(B) [R]	8.2(E) [P]	6.9(C) [S]	8.3(B) [P]	8.11(A) [R]	8.2(C) [P]	8.11(A) [R]	8.3(B) [P]	8.3(D) [P]	8.3(B) [P]	8.2(E) [P]	8.2(A) [P]	8.6(A) [R]	8.2(E) [P]	8.3(B) [P]	8.8(A)	
A (0%)	F (18.75%)	+A (68.75%)	F (21.88%)	+A (12.5%)	F (21.88%)	A (34.38%)	F (3.12%)	A (37.5%)	+F (34.38%)	A (15.62%)	2 (53.12%)	A (15.62%)	+F (43.75%)	A (15.62%)	+F (78.12%)	A (18.75%)	F (9.38%)	A (1)	
+B (96.88%)	G (0%)	B (21.88%)	G (18.75%)	B (18.75%)	G (3.12%)	B (0%)	+G (62.5%)	B (31.25%)	G (12.5%)	B (31.25%)	NC (46.88%)	B (9.38%)	G (53.12%)	B (9.38%)	G (6.25%)	B (34.38%)	G (9.38%)	+B (68)	
C (3.12%)	+H (53.12%)	C (6.25%)	H (40.62%)	C (31.25%)	+H (78.12%)	C (6.25%)	H (8.25%)	+C (28.12%)	H (31.25%)	+C (37.5%)			+C (50%)	H (0%)	+C (65.62%)	H (6.25%)	+C (25%)	H (15.62%)	C (9)
D (0%)	J (28.12%)	D (3.12%)	+J (18.75%)	D (37.5%)	J (3.12%)	+D (59.38%)	J (28.12%)	D (3.12%)	J (21.88%)	D (15.62%)			D (25%)	J (3.12%)	D (9.38%)	J (9.38%)	D (21.88%)	+J (65.62%)	D (9)
* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)
A (0%)	F (22.73%)	+A (68.18%)	F (27.27%)	+A (9.09%)	F (31.82%)	A (36.36%)	F (4.55%)	A (40.91%)	+F (36.36%)	A (13.64%)	2 (50%)	A (4.55%)	+F (31.82%)	A (22.73%)	+F (68.18%)	A (13.64%)	F (9.09%)	A (13)	
+B (95.45%)	G (0%)	B (18.18%)	G (22.73%)	B (22.73%)	G (0%)	B (0%)	+G (54.55%)	B (36.36%)	G (9.09%)	B (31.82%)	NC (50%)	B (13.64%)	G (63.64%)	B (13.64%)	G (9.09%)	B (31.82%)	G (13.64%)	+B (59)	
C (4.55%)	+H (59.09%)	C (9.09%)	H (40.91%)	C (36.36%)	+H (63.64%)	C (9.09%)	H (9.09%)	+C (18.18%)	H (31.82%)	+C (40.91%)			+C (54.55%)	H (0%)	+C (54.55%)	H (9.09%)	+C (27.27%)	H (27.73%)	C (13)
D (0%)	J (18.18%)	D (4.55%)	+J (9.09%)	D (31.82%)	J (4.55%)	+D (54.55%)	J (21.82%)	D (4.55%)	J (22.73%)	D (13.64%)			D (27.27%)	J (4.55%)	D (9.09%)	J (13.64%)	D (27.27%)	+D (54.55%)	D (13)
* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)
A (0%)	F (10%)	+A (70%)	F (10%)	+A (20%)	F (0%)	A (30%)	F (0%)	A (30%)	+F (30%)	A (20%)	2 (60%)	A (40%)	+F (70%)	A (0%)	+F (100%)	A (30%)	F (10%)	A (1)	
+B (100%)	G (0%)	B (30%)	G (10%)	B (10%)	G (10%)	B (0%)	+G (80%)	B (20%)	G (20%)	B (30%)	NC (40%)	B (0%)	G (30%)	B (0%)	G (0%)	B (40%)	G (0%)	+B (5)	
C (0%)	+H (40%)	C (0%)	H (40%)	C (20%)	+H (90%)	C (0%)	H (0%)	+C (50%)	H (30%)	+C (30%)			+C (40%)	H (0%)	+C (90%)	H (0%)	+C (20%)	H (90%)	C
D (0%)	J (50%)	D (0%)	+J (40%)	D (50%)	J (0%)	+D (70%)	J (20%)	D (0%)	J (20%)	D (20%)			D (20%)	J (0%)	D (10%)	J (0%)	D (10%)	+D (50%)	D (11)
* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)
A (0%)	F (11.76%)	+A (76.47%)	F (11.76%)	+A (16.5%)	F (17.65%)	A (17.65%)	F (5.88%)	A (41.18%)	+F (41.18%)	A (17.65%)	2 (58.82%)	A (0%)	+F (41.18%)	A (5.88%)	+F (82.35%)	A (17.65%)	F (5.88%)	A (1)	
+B (100%)	G (0%)	B (17.65%)	G (17.65%)	B (23.53%)	G (0%)	B (0%)	+G (64.71%)	B (29.41%)	G (17.65%)	B (29.41%)	NC (41.18%)	B (5.88%)	G (52.94%)	B (17.65%)	G (0%)	B (23.53%)	G (5.88%)	+B (76)	
C (0%)	+H (64.71%)	C (5.88%)	H (41.18%)	C (23.53%)	+H (76.47%)	C (11.76%)	H (5.88%)	+C (23.53%)	H (29.41%)	+C (35.29%)			+C (58.82%)	H (0%)	+C (70.59%)	H (5.88%)	+C (35.29%)	H (17.65%)	C
D (0%)	J (23.53%)	D (0%)	+J (29.41%)	D (35.29%)	J (5.88%)	+D (70.59%)	J (23.53%)	D (5.88%)	J (17.65%)	D (17.65%)			D (35.29%)	J (5.88%)	D (5.88%)	J (11.76%)	D (23.53%)	+D (70.59%)	D (11)
* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)	* (0%)
A (0%)	F (26.67%)	+A (60%)	F (33.33%)	+A (6.67%)	F (26.67%)	A (53.33%)	F (0%)	A (33.33%)	+F (26.67%)	A (13.33%)	2 (46.67%)	A (33.33%)	+F (46.67%)	A (26.67%)	+F (73.33%)	A (20%)	F (13.33%)	A (13)	
+B (73.33%)	G (0%)	B (33.33%)	G (33.33%)	B (66.67%)	G (0%)	B (0%)	+G (66.67%)	B (33.33%)	G (13.33%)	B (33.33%)	NC (33.33%)	B (13.33%)	G (66.67%)	B (13.33%)	G (0%)	B (46.67%)	G (13.33%)	+B (73.33%)	

Analysis Options

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IQ Analysis | Investigating the Question 8.5(A) RC 1

8.5(A) describe the structure of atoms, including the masses, electrical charges, and locations, of protons and neutrons in the nucleus and electrons in the electron cloud

2019 - Q29
 The atomic number of krypton is 36. If the mass number of a krypton atom is 84, which table shows the number of subatomic particles inside and outside the nucleus of the krypton atom?

A

Number of Particles Inside Nucleus	Number of Particles Outside Nucleus
36	36

B

Number of Particles Inside Nucleus	Number of Particles Outside Nucleus
36	48

C

Number of Particles Inside Nucleus	Number of Particles Outside Nucleus
84	36

D

Number of Particles Inside Nucleus	Number of Particles Outside Nucleus
84	48

* Correct Answer (C)

Analysis of Assessed Standards

Cluster	Properties of Atoms
Subcluster	Structure of Atoms
Content Area	Chemistry
Process	
Strand	

Data Analysis

Item	State	Local	Error Analysis
A	14	37.5	<input type="checkbox"/> Guessing <input type="checkbox"/> Careless Error
B	32	31.25	<input type="checkbox"/> Stopped Too Early <input type="checkbox"/> Mixed Up Concepts
C*	47	28.12	
D	7	3.12	

Learning from Mistakes
Instructional Implications

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