



INDICATOR INFO SESSION 2: WEIGHTED AVERAGE ACHIEVEMENT & CORE SUBJECT PERFORMANCE (HIGH SCHOOL)

New York State Education Department (NYSED)
Thursday, January 12, 2023

Welcome

Indicator Info Session 2: Weighted Average Achievement and Core Subject Performance (High School)



Overview

The purpose of these sessions is to provide information about how accountability determinations were calculated using 2021-22 school year results.

- United States Department of Education (USDE) approved 1-year ESSA Accountability State Plan Addendum
- PDF version and recording available on:

<http://www.nysed.gov/accountability/school-and-district-accountability>

All mics have been muted and videos have been turned off



QUESTIONS?

Please submit your questions in the chat box.

Include:
name, title, district



Questions and Answers

Questions can be submitted through the chat function.
All further questions after this session can be submitted to accountinfo@nysed.gov.





Weighted Average Achievement

How is this indicator calculated at the High School Level?

One



Core Subject Performance

How is this indicator calculated at the High School Level?

Two



Preliminary Determinations

How are accountability indicators used to determine supports for the 2022-23 school year?

Three

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Weighted Average Achievement

Calculate the English Language Arts (ELA), Math, and Science Achievement Indices:

$$\text{Formula: } \frac{100 \times (\text{Level 2}) + 2(\text{Level 3}) + 2.5 (\text{Level 4})}{\text{Denominator}}$$

The Denominator is the 4-year accountability cohort as of June 30 (students who entered Grade 9 in the same year and were enrolled on June 30th four years later) for which the only assessment record for that subject is not an exemption from the spring 2020 administration

Subject	# of Students in Cohort	Tested	# L1	# L2	# L3	# L4	Numerator	Denominator	Index
ELA	100	60	4	6	5	45	129	100	129
Math	100	70	1	5	8	56	161	100	161
Science	100	80	5	5	15	55	173	100	173
Social Studies	100	10	0	2	2	6	21	100	21

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Weighted Average Achievement

Formula:
$$\frac{3(\text{Secondary-Level ELA PI}) + 3(\text{Secondary-Level Math PI}) + 2(\text{Secondary-Level Science PI}) + (\text{Secondary-Level Social Studies PI})}{9}$$

Subject	PI	Weight	Weighted Value	Weighted Average Achievement Index
ELA	129	3	$(129 \times 3) = 387$	$1237 \div 9 = 137$
Math	161	3	$(161 \times 3) = 483$	
Science	173	2	$(173 \times 2) = 346$	
Social Studies	21	1	$(21 \times 1) = 21$	
		Denominator = 9	Numerator = 1237	137

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Weighted Average Achievement

Rank order schools by their Weighted Average Achievement Index from Step 2.

The higher the rank, the better the performance.

School	Weighted Average Achievement Index	Rank
School H	25	1
School A	55	2
School J	70	3
School G	85	4
School D	92	5
School E	105	6
School I	114	7
School B	128	8
School F	137	9
School C	149	10
School K	158	11
School N	163	12
School O	172	13
School M	177	14
School L	185	15

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Weighted Average Achievement

Achievement Level Assignment

Rank	Level
10% or less	1
10.1 to 50%	2
50.1 to 75%	3
Greater than 75%	4

School	Weighted Average Achievement Index	Rank	Rank Range	Weighted Average Achievement Level
School H	25	1	10% or Less	1
School A	55	2	10.1 to 50%	2
School J	70	3	10.1 to 50%	2
School G	85	4	10.1 to 50%	2
School D	92	5	10.1 to 50%	2
School E	105	6	10.1 to 50%	2
School I	114	7	10.1 to 50%	2
School B	128	8	50.1 to 75%	3
School F	137	9	50.1 to 75%	3
School C	149	10	50.1 to 75%	3
School K	158	11	50.1 to 75%	3
School N	163	12	Greater than 75%	4
School O	172	13	Greater than 75%	4
School M	177	14	Greater than 75%	4
School L	185	15	Greater than 75%	4

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Core Subject Performance

Calculate the English Language Arts (ELA), Math, and Science Achievement Indices

$$\text{Formula: } 100 \times \frac{(\text{Level 2}) + 2(\text{Level 3}) + 2.5 (\text{Level 4})}{\text{Denominator}}$$

The Denominator is the number of students in the 4-year cohort who have valid test scores.

Subject	# of Students in Cohort	Tested	# L1	# L2	# L3	# L4	Numerator	Denominator	Index
ELA	100	60	4	6	5	45	129	60	215
Math	100	70	1	5	8	56	161	70	230
Science	100	80	5	5	15	55	173	80	216
Social Studies	100	10	0	2	2	6	21	10	210

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Core Subject Performance

1. Multiply the Performance Indices (PI) by the Weight
2. Sum the Weighted Values and the Weight
3. Divide the summed Weighted Value by the summed Weight

Subject	PI	Weight	Weighted Value	Weighted Average Achievement Index
ELA	215	3	$(215 \times 3) = 645$	$1977 \div 9 = 220$
Math	230	3	$(230 \times 3) = 690$	
Science	216	2	$(216 \times 2) = 432$	
Social Studies	210	1	$(210 \times 1) = 210$	
		Denominator = 9	Numerator = 1977	220

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Core Subject Performance

Achievement Level Assignment

Rank	Level
10% or less	1
10.1 to 50%	2
50.1 to 75%	3
Greater than 75%	4

School	Core Subject Performance Index	Rank	Rank Range	Core Subject Performance Level
School H	125	1	10% or less	1
School J	131	2	10.1 to 50%	2
School A	135	3	10.1 to 50%	2
School G	142	4	10.1 to 50%	2
School D	155	5	10.1 to 50%	2
School I	180	6	10.1 to 50%	2
School K	185	7	10.1 to 50%	2
School E	202	8	50.1 to 75%	3
School C	205	9	50.1 to 75%	3
School B	210	10	50.1 to 75%	3
School N	215	11	50.1 to 75%	3
School F	220	12	Greater than 75%	4
School L	231	13	Greater than 75%	4
School O	235	14	Greater than 75%	4
School M	238	15	Greater than 75%	4



Exams Used for Determining Weighted Average Achievement and Core Subject Performance Indices

Elementary/Middle Level Exams	High School Level Exams
New York State Testing Program (NYSTP) assessment in ELA and math in Grades 3-8	Regents examination in ELA, math, science, and social studies
New York State Alternative Assessment (NYSAA) in ELA and math when the student is age equivalent to Grades 3-8 and the NYSAA in science when the student is age equivalent to Grades 4 and 8, if the student's Committee on Special Education (CSE) determines that the student is eligible to take the NYSAA in lieu of the NYSTP	Approved alternative to Regents examination in ELA, math, science, and social studies
Grade 4 Elementary-Level Science Test	NYSAA in ELA, math, and science, if the student's CSE determines that the student is eligible to take the NYSAA in lieu of a Regents examination
Grade 8 Intermediate-Level Science Test	
Regents mathematics examination in lieu of the NYSTP assessment in Grades 6, 7, and 8; and Regents science examination in lieu of the Grade 8 Intermediate-Level Science Test	



Preliminary Determinations

Elementary/Middle School CSI Identification Scenarios

Scenarios	Weighted	Core	English Language Proficiency	Chronic Absenteeism
1	Both Level 1		Any Level (None, 1-4)	
2	Level 2	Level 1	Both Not Level 3 or 4	
3	Level 1	None	Both Not Level 3 or 4	
4	Level 1	Level 2	Both Not Level 3 or 4	
5	Level 3	Level 1	Both Not Level 3 or 4	
6	Level 1	Level 3	Both Not Level 3 or 4	

High School CSI Identification Scenarios

Scenarios	Weighted	Core	Grad Rate	English Language Proficiency	Chronic Absenteeism
1	Both Level 1		Level 1	Any Level (None, 1-4)	
2	Level 2	Level 1	Level 1	Both Not Level 3 or 4	
3	Level 1	None	Level 1	Both Not Level 3 or 4	
4	Level 1	Level 2	Level 1	Both Not Level 3 or 4	
5	Both Level 1		Level 2	Both Not Level 3 or 4	
6	Level 1	Level 2	Level 2	Both Not Level 3 or 4	
7	Level 2	Level 1	Level 2	Both Not Level 3 or 4	

Further Resources

<http://www.nysed.gov/accountability/school-and-district-accountability>

<https://www.p12.nysed.gov/irs/>



Webinar:

Preparing for the Every Student Succeeds Act (ESSA) Accountability System Restart for the 2022-23 School Year



Document:

Understanding the New York State Accountability System under the Every Student Succeeds Act (ESSA) for 2022-2023 Accountability Statuses Based on 2021-2022 Results



Data Reports:

Schools and districts can view data submitted via the Student Information Repository System (SIRS) used for making accountability determinations

Questions and Answers

Questions can be submitted through the chat function.

Please include your name, work title if applicable, and district represented in your question.

All further questions after this session can be submitted to accountinfo@nysed.gov.



THANK YOU

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accountinfo@nysed.gov

**NEXT SESSION:
WEDNESDAY, JANUARY 18TH
TOPIC: GRADUATION RATE**

All recordings/slides posted:
[www.nysed.gov/accountability/
school-and-district-
accountability](http://www.nysed.gov/accountability/school-and-district-accountability)

