

New York State EDUCATION DEPARTMENT

Knowledge > Skill > Opportunity

## Every Student Succeeds Act (ESSA) Accountability System

### **Reimagine Phase Webinars:**

### Weighted Average Achievement and Core Subject Performance (High School Level)



2025-26 School Year (SY) Based on 2024-25 SY Results and Beyond

## In This Webinar

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	Questions? accountinfo@nysed.gov



### Importance of the Weighted Average Achievement and Core Subject Performance Indicators

Weaving State assessment data into local data can result in more comprehensive and nuanced understanding of students' learning that can be used to:



Inform decisionmaking and guide improvement planning



Identify patterns of performance



Improve educational outcomes for all students



### **Reimagine Phase Accountability Indicators**





## Weighted Average Achievement and Core Subject Performance Indicators

#### The Weighted Average Achievement

indicator measures the academic achievement of students in the accountability cohort **using a denominator that follows ESSA guidelines.** 

#### The **Core Subject Performance** indicator measures the academic achievement of students in the accountability cohort **with valid assessment records**.

Subjects Included in HS Weighted Average Achievement and Core Subject Performance Indicator Calculations





English Language Arts (ELA)

Math





Science



Restored to calculations starting with 2024-25 SY results



## **Accountability Cohort**

The **accountability cohort** consists of all students who:



For more information about accountability cohort inclusion and exclusion criteria, please refer to the most recent <u>SIRS Manual</u>, available on the NYSED Information and Reporting Services website: <u>https://www.p12.nysed.gov/irs/sirs/</u>.



## **High School Level Assessments**

### High School Level Assessments Used in Weighted Average Achievement and Core Subject Performance Calculations

	ELA		Math		Science	0,	Social Studies
•	Regents Examinations	•	Regents Examinations	•	Regents Examinations	•	Regents Examinations
•	Approved Alternatives to Regents Examinations	•	Approved Alternatives to Regents Examinations	•	Approved Alternatives to Regents Examinations	•	Approved Alternatives to Regents Examinations
•	New York State Alternative Assessment (NYSAA)	•	NYSAA	•	NYSAA		



Step 1: Calculate the ELA, Math, Science, and Social Studies Performance Indices (PIs)

 $\mathsf{PI} = \frac{(Level 2) + 2(Level 3) + 2.5(Level 4)}{\# of students in the accountability cohort} * 100$ 

#### # of Tested # of Students in # # # # Students in **Subject** Accountability ΡΙ Level Level Level Level **Accountability** Cohort 2 3 1 4 Cohort ELA 100 65 25 23 14 3 58.5 Math 100 59.0 72 31 24 15 2 3 49.5 Science 100 62 28 20 11 Social Studies 100 12 2 51.0 59 23 22



$$ELAPI = \frac{(23) + 2(14) + 2.5(3)}{100} * 100 = \frac{58.5}{100} * 100 = 58.5$$

#### **Step 2: Calculate the Weighted Average Achievement Index**

Weighted Average  
Achievement Index = 
$$\frac{3(ELA PI) + 3(Math PI) + 2(Science PI) + 2(Social Studies PI)}{10}$$

Subject	PI
ELA	58.5
Math	59.0
Science	49.5
Social Studies	51.0

$$\frac{3(58.5) + 3(59.0) + 2(49.5) + 2(51.0)}{10} = 55.4$$



### Step 3: Rank order schools by Weighted Average Achievement Index

School	Weighted Average Achievement Index		School	Weighted Average Achievement Index	
School A	146.2	$\bigvee$	School F	55.4	
School B	102.3		School H	62.3	
School C	81.9		School C	81.9	
School D	118.7		School B	102.3	
School E	205.2		School D	118.7	
School F	55.4		School J	130.0	
School G	223.9		School A	146.2	
School H	62.3		School I	171.1	
School I	171.1		School E	205.2	
School J	130.0		School G	223.9	



For the purposes of this example, assume there are 10 EM level schools in New York State.

# Step 4: Assign a Weighted Average Achievement Level based on where the school fell in the rank

Weighted Average Achievement Levels

Rank	Level
10% or less	
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 F	55.4	1	10% or less	1
School H	62.3	2	10.1 to 50%	2
School C	81.9	3	10.1 to 50%	2
School B	102.3	4	10.1 to 50%	2
School D	118.7	5	10.1 to 50%	2
School J	130.0	6	50.1 to 75%	3
School A	146.2	7	50.1 to 75%	3
School I	171.1	8 Greater than 75%		4
School E	205.2	9	Greater than 75%	4
School G	223.9	10	Greater than 75%	4



For the purposes of this example, assume there are 10 HS level schools in New York State.

### **Core Subject Performance Index**

#### Step 1: Calculate the ELA, Math, Science, and Social Studies PIs

 $PI = \frac{(Level 2) + 2(Level 3) + 2.5(Level 4)}{\# oftested students in the accountability cohort} * 100$ 

Subject	# of Students in Accountability Cohort	# of Tested Students in Accountability Cohort	# Level 1	# Level 2	# Level 3	# Level 4	ΡI
ELA	100	65	25	23	14	3	90.0
Math	100	72	31	24	15	2	81.9
Science	100	62	28	20	11	3	79.8
Social Studies	100	59	23	22	12	2	86.4

ELA PI = 
$$\frac{(23) + 2(14) + 2.5(3)}{65} * 100 = \frac{58.5}{65} * 100 = 90.0$$

### **Core Subject Performance**

#### **Step 2: Calculate the Core Subject Performance Index**

Core Subject  
Performance Index = 
$$\frac{3(ELA PI) + 3(Math PI) + 2(Science PI) + 2(Social Studies PI)}{10}$$

Subject	PI
ELA	90.0
Math	81.9
Science	79.8
Social Studies	86.4

$$\frac{3(90.0) + 3(81.9) + 2(79.8) + 2(86.4)}{10} = 84.8$$



### **Core Subject Performance**

Step 3: Assign a Core Subject Performance Level using static cut points

Core Subject Performance Levels All Students Group

Cara Subject

School F – All Students Group Core Subject Performance Index

	Performance Index	Level	
	0 – 70	1	
$\langle$	70.1 – 133.3	2	>
	133.4 – 165.5	3	
	165.6 – 250	4	



### Step 1: Calculate ELA, Math, Science, and Social Studies PIs

$$\mathsf{PI} = \frac{(Level 2) + 2(Level 3) + 2.5(Level 4)}{\# of students in the accountability cohort} * 100$$

Subject	# of Students in Accountability Cohort	# of Tested Students in Accountability Cohort	# Level 1	# Level 2	# Level 3	# Level 4
ELA	30	26	3	4	8	11
Math	30	26	3	3	8	12
Science	30	24	2	4	8	10
Social Studies	30	22	1	3	9	9



### Step 1: Calculate ELA, Math, Science, and Social Studies PIs

Subject	# of Students in Accountability Cohort	# of Tested Students in Accountability Cohort	# Level 1	# Level 2	# Level 3	# Level 4
ELA	30	26	3	4	8	11
Math	30	26	3	3	8	12
Science	30	24	2	4	8	10
Social Studies	30	22	1	3	9	9



### **Step 2: Calculate Weighted Average Achievement Index**

Weighted Average  
Achievement Index = 
$$\frac{3(ELA PI) + 3(Math PI) + 2(Science PI) + 2(Social Studies PI)}{10}$$

Subject	PI
ELA	158.3
Math	163.3
Science	150.0
Social Studies	145.0

$$\frac{3(158.3) + 3(163.3) + 2(150.0) + 2(145.0)}{10} = 155.5$$



Step 3: Rank order schools by Weighted Average Achievement Index

ool	Weighted Average Achievement Index
ool A	150.2
	96.7
	74.3
	112.5
	178.8
	203.4
i	155.5
Η	61.1
	48.9
J	133.9



For the purposes of this example, assume there are 10 HS level schools in New York State.

### Step 4: Assign a Level based on where the school fell in the rank

#### Weighted Average Achievement Levels

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 I	48.9	1	10% or less	1	
	School H	61.1	2	10.1 to 50%	2	
	School C	74.3	3	10.1 to 50%	2	
	School B	96.7	4	10.1 to 50%	2	
1	School D	112.5	5	10.1 to 50%	2	
	School J	133.9	6	50.1 to 75%	3	
	School A	150.2	7	50.1 to 75%	3	
<	School G	155.5	8	Greater than 75%	4	
	School E	178.8	9	Greater than 75%	4	
	School F	203.4	10	Greater than 75%	4	



For the purposes of this example, assume there are 10 EM level schools in New York State.

### Step 1: Calculate ELA, Math, Science, and Social Studies PIs

 $\mathsf{PI} = \frac{(Level 2) + 2(Level 3) + 2.5(Level 4)}{\# of \ tested \ students \ in \ the \ accountability \ cohort} * 100$ 

Subject	# of Students in Accountability Cohort	# of Tested Students in Accountability Cohort	# Level 1	# Level 2	# Level 3	# Level 4
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Math	30	26	3	3	8	12
Science	30	24	2	4	8	10
Social Studies	30	22	1	3	9	9



### **Step 2: Calculate Core Subject Performance Index**



Subject	PI
ELA	182.7
Math	188.5
Science	187.5
Social Studies	197.7

$$\frac{3(182.7) + 3(188.5) + 2(187.5) + 2(197.7)}{10} = 188.4$$



Step 3: Assign a Core Subject Performance Level using static cut points







## **Next Steps: Analyzing Results**

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Data used for calculating the Weighted Average Achievement and Core Subject Performance indicators can be found in **SIRS 114 Reports.** 



This data can be used to **identify achievement gaps** and **assess program effectiveness.** 



Analyzing Weighted Average Achievement and Core Subject Performance data can support goal-setting, instructional decisionmaking, and targeted interventions.



## **How Can I Learn More?**

### School and District Accountability Resources and Data webpage



https://www.nysed.gov/accountability/school-and-districtaccountability-resources-and-data

- Fact sheets
- Webinars
- Links to additional resources

### **Continuous Improvement webpage**



https://www.nysed.gov/accountability/continuous-improvement

 Additional resources and supports for identified schools and districts

Questions about the New York State ESSA accountability system can be emailed to the Office of Accountability at <u>accountinfo@nysed.gov</u>.

### Thank you for joining us today!

