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 (Elementary/Middle Level)

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

In This Webinar

- The Importance of the Weighted Average Achievement and Core Subject Performance Indicators
- Reimagine Phase Accountability Indicators
- Weighted Average Achievement Indicator and Core Subject Performance Indicator Calculations with Examples
- Next Steps: Analyzing Results
- How can I learn more?
  https://www.nysed.gov/accountability/school-and-district-accountability-resources-and-data
- 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:

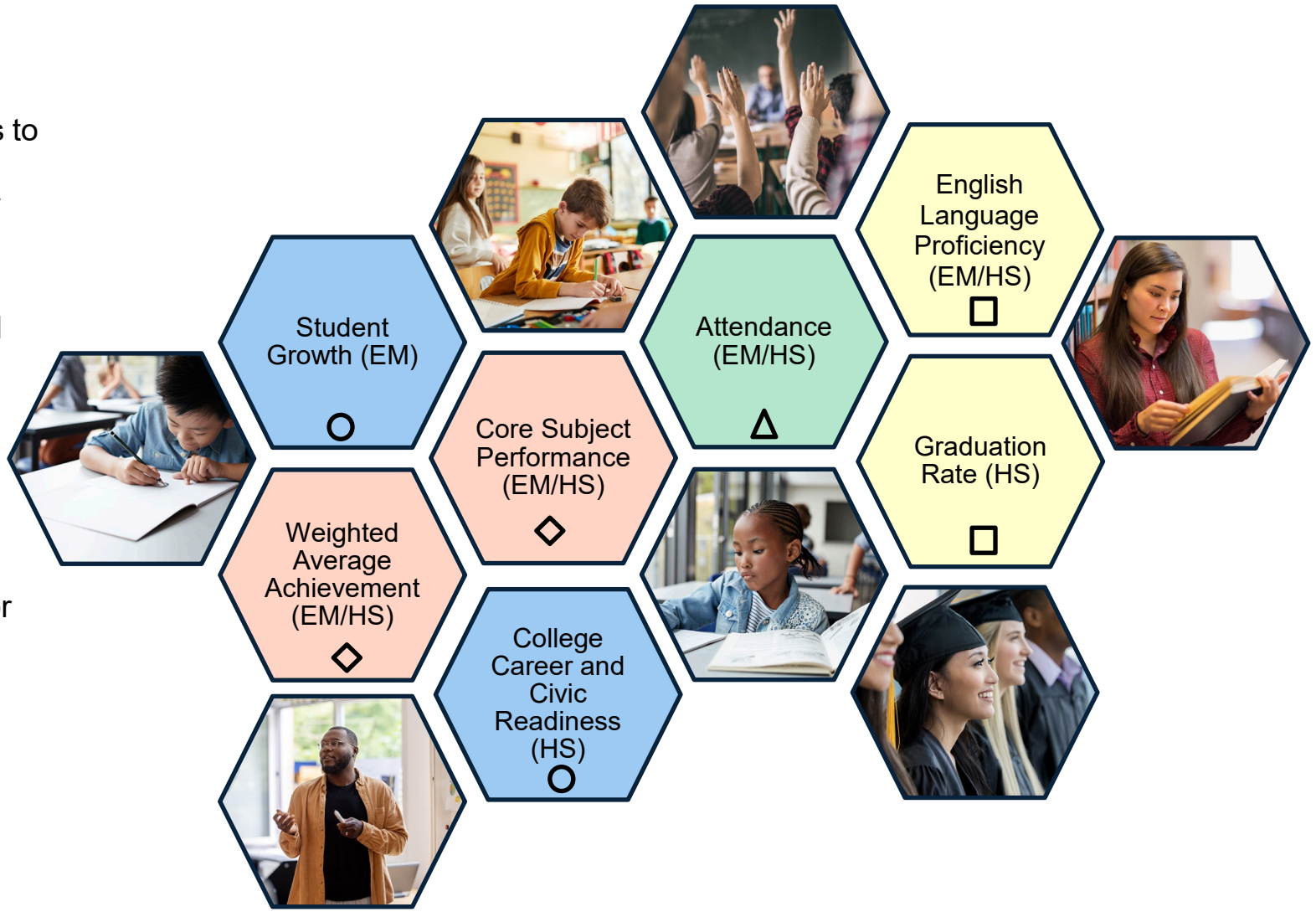
Inform decision-making and guide improvement planning

Identify patterns of performance

Improve educational outcomes for all students

Reimagine Phase Accountability Indicators

- Maintained from Rebuild Phase with modifications to calculation methodology
- Maintained from Rebuild Phase with no changes
- Restored indicator
- New indicator

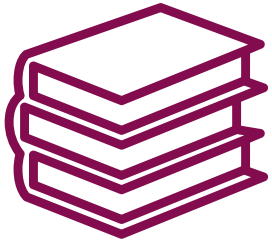


Weighted Average Achievement and Core Subject Performance Indicators

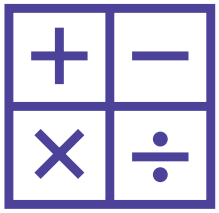
The Weighted Average Achievement indicator measures the academic achievement of continuously enrolled students **using a denominator that meets the USDE 95% participation requirement.**

The **Core Subject Performance** indicator measures the academic achievement of continuously enrolled students **with valid assessment records.**

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



English Language Arts (ELA)



Math

Science

Restored to calculations starting with 2024-25 SY results

Elementary/Middle Level Assessments

Assessments Used in EM Level Weighted Average Achievement and Core Subject Performance Calculations		
ELA	**Math**	**Science**
• Grades 3-8 New York State Testing Program (NYSTP) • New York State Alternative Assessment (NYSAA)	• Grades 3-8 NYSTP • NYSAA • Regents examination taken in lieu of NYSTP in Grade 6, 7, and/or 8	• Grades 5 and 8 NYSTP • NYSAA • Regents examination taken in lieu of NYSTP in Grade 7 or 8

Weighted Average Achievement

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

$$PI = \frac{(Level\ 2) + 2(Level\ 3) + 2.5(Level\ 4)}{Denominator} * 100$$

The Denominator is the greater of:

1. The number of continuously enrolled students with valid assessment records; or
2. 95% of continuously enrolled students, with or without assessment records.

School F – All Students Group

Subject	# of Continuously Enrolled Students	95% of Continuously Enrolled Students	# of Continuously Enrolled Tested Students	# Level 1	# Level 2	# Level 3	# Level 4	PI Numerator	PI
ELA	120	114	90	20	20	30	20	130	114.0
Math	120	114	100	10	30	40	20	160	140.4
Science	40	38	35	5	10	15	5	52.5	138.2

$$\text{ELA PI} = \frac{(20) + 2(30) + 2.5(20)}{114} * 100 = \frac{130}{114} * 100 = 114.0$$

Weighted Average Achievement

Step 2: Calculate the Weighted Average Achievement Index

$$\text{Weighted Average Achievement Index} = \frac{ELA\ PI\ Numerator + Math\ PI\ Numerator + Science\ PI\ Numerator}{ELA\ PI\ Denominator + Math\ PI\ Denominator + Science\ PI\ Denominator} * 100$$

School F – All Students Group

Subject	PI Numerator	PI Denominator
ELA	130	114
Math	160	114
Science	52.5	38

$$\frac{130 + 160 + 52.5}{114 + 114 + 38} * 100 = \frac{342.5}{266} * 100 = 128.8$$

Weighted Average Achievement

Step 3: Rank order schools by Weighted Average Achievement Index

School	Weighted Average Achievement Index
School A	148.2
School B	82.3
School C	175.4
School D	118.9
School E	167.9
School F	128.8
School G	45.6
School H	60.1
School I	153.6
School J	75.8

School	Weighted Average Achievement Index	Rank
School G	45.6	1
School H	60.1	2
School J	75.8	3
School B	82.3	4
School D	118.9	5
School F	128.8	6
School A	148.2	7
School I	153.6	8
School E	167.9	9
School C	175.4	10

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

Weighted Average Achievement

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	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 A	45.6	1	10% or less	1
School J	60.1	2	10.1 to 50%	2
School G	75.8	3	10.1 to 50%	2
School D	82.3	4	10.1 to 50%	2
School B	118.9	5	10.1 to 50%	2
School F	128.8	6	50.1 to 75%	3
School H	148.2	7	50.1 to 75%	3
School I	153.6	8	Greater than 75%	4
School C	167.9	9	Greater than 75%	4
School E	175.4	10	Greater than 75%	4

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

Core Subject Performance

Step 1: Calculate the ELA, Math, and Science PIs

$$\text{PI} = \frac{(Level\ 2) + 2(Level\ 3) + 2.5(Level\ 4)}{Denominator} * 100$$

The Denominator is the number of continuously enrolled students with valid assessment records.

School F – All Students Group

Subject	# of Continuously Enrolled Students	95% of Continuously Enrolled Students	# of Continuously Enrolled Tested Students	# Level 1	# Level 2	# Level 3	# Level 4	PI Numerator	PI
ELA	120	114	90	20	20	30	20	130	144.4
Math	120	114	100	10	30	40	20	160	160.0
Science	40	38	35	5	10	15	5	52.5	150.0

$$\text{ELA PI} = \frac{(20) + 2(30) + 2.5(20)}{90} * 100 = \frac{130}{90} * 100 = 144.4$$

Core Subject Performance

Step 2: Calculate the Core Subject Performance Index

$$\text{Core Subject Performance Index} = \frac{ELA\ PI\ Numerator + Math\ PI\ Numerator + Science\ PI\ Numerator}{ELA\ PI\ Denominator + Math\ PI\ Denominator + Science\ PI\ Denominator} * 100$$

School F – All Students Group

Subject	PI Numerator	PI Denominator
ELA	130	90
Math	160	100
Science	52.5	35

$$\frac{130 + 160 + 52.5}{90 + 100 + 35} * 100 = \frac{342.5}{225} * 100 = 152.2$$

Core Subject Performance

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

School F – All Students Group Core Subject Performance Index = 152.2

Core Subject Performance Levels
All Students Group

Core Subject Performance Index	Level
0 – 86.5	1
86.6 – 131.2	2
131.3 – 158.1	3
158.2 – 250	4

Example: Weighted Average Achievement

Step 1: Calculate ELA, Math, and Science PIs

$$PI = \frac{(Level\ 2) + 2(Level\ 3) + 2.5(Level\ 4)}{Greater\ of: The\ number\ of\ continuously\ enrolled\ students\ with\ valid\ test\ scores \\ \boldsymbol{OR} \\ 95\%\ of\ continuously\ enrolled\ students, with\ or\ without\ valid\ test\ scores} * 100$$

School R – All Students Subgroup

Subject	# of Continuously Enrolled Students	# of Continuously Enrolled Tested Students	95% of Continuously Enrolled Students	# Level 1	# Level 2	# Level 3	# Level 4
ELA	100	94	95	14	23	27	30
Math	100	96	95	13	28	26	29
Science	25	23	24	2	3	8	10

Example: Weighted Average Achievement

Step 1: Calculate ELA, Math, and Science PIs

School R – All Students Group

Subject	# of Continuously Enrolled Students	# of Continuously Enrolled Tested Students	95% of Continuously Enrolled Students	# Level 1	# Level 2	# Level 3	# Level 4
ELA	100	94	95	14	23	27	30
Math	100	96	95	13	28	26	29
Science	25	23	24	2	3	8	10

ELA PI

$$\frac{(23) + 2(27) + 2.5(30)}{95} * 100$$

$$\frac{152}{95} * 100$$

160

Math PI

$$\frac{(28) + 2(26) + 2.5(29)}{96} * 100$$

$$\frac{152.5}{96} * 100$$

158.9

Science PI

$$\frac{(3) + 2(8) + 2.5(10)}{24} * 100$$

$$\frac{44}{24} * 100$$

183.3

Example: Weighted Average Achievement

Step 2: Calculate Weighted Average Achievement Index

$$\text{Weighted Average Achievement Index} = \frac{ELA\ PI\ Numerator + Math\ PI\ Numerator + Science\ PI\ Numerator}{ELA\ PI\ Denominator + Math\ PI\ Denominator + Science\ PI\ Denominator} * 100$$

School R – All Students Subgroup

Subject	# of Continuously Enrolled Students	# of Continuously Enrolled Tested Students	95% of Continuously Enrolled Students	# Level 1	# Level 2	# Level 3	# Level 4	PI Numerator
ELA	100	94	95	14	23	27	30	152
Math	100	96	95	13	28	26	29	152.5
Science	100	23	24	2	3	8	10	44

$$\frac{152 + 152.5 + 44}{95 + 96 + 24} * 100 = \frac{348.5}{215} * 100 = 162.1$$

Example: Weighted Average Achievement

Step 3: Rank order schools by Weighted Average Achievement Index

School	Weighted Average Achievement Index
School K	140.3
School L	194.7
School M	113.6
School N	179.3
School O	71.5
School P	121.0
School Q	98.4
School R	162.1
School S	106.8
School T	146.9

School	Weighted Average Achievement Index	Rank
School O	71.5	1
School Q	98.4	2
School M	113.6	3
School S	106.8	4
School P	121.1	5
School K	140.3	6
School T	146.9	7
School R	162.1	8
School N	179.3	9
School L	194.7	10

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

Example: Weighted Average Achievement

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 O	71.5	1	10% or less	1
School Q	98.4	2	10.1 to 50%	2
School M	113.6	3	10.1 to 50%	2
School S	106.8	4	10.1 to 50%	2
School P	121.1	5	10.1 to 50%	2
School K	140.3	6	50.1 to 75%	3
School T	146.9	7	50.1 to 75%	3
School R	162.1	8	Greater than 75%	4
School N	179.3	9	Greater than 75%	4
School L	194.7	10	Greater than 75%	4

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

Example: Core Subject Performance

Step 1: Calculate ELA, Math, and Science PIs

$$\text{PI} = \frac{(Level\ 2) + 2(Level\ 3) + 2.5(Level\ 4)}{Number\ of\ continuously\ enrolled\ students\ with\ valid\ test\ scores} * 100$$

School R – All Students Subgroup

Subject	# of Continuously Enrolled Students	# of Continuously Enrolled Tested Students	95% of Continuously Enrolled Students	# Level 1	# Level 2	# Level 3	# Level 4
ELA	100	94	95	14	23	27	30
Math	100	96	95	13	28	26	29
Science	25	23	24	2	3	8	10

Example: Core Subject Performance

Step 1: Calculate ELA, Math, and Science PIs

School R – All Students Group

Subject	# of Continuously Enrolled Students	# of Continuously Enrolled Tested Students	95% of Continuously Enrolled Students	# Level 1	# Level 2	# Level 3	# Level 4
ELA	100	94	95	14	23	27	30
Math	100	96	95	13	28	26	29
Science	25	23	24	2	3	8	10

ELA PI

$$\frac{(23) + 2(27) + 2.5(30)}{94} * 100$$

$$\frac{152}{94} * 100$$

161.7

Math PI

$$\frac{(28) + 2(26) + 2.5(29)}{96} * 100$$

$$\frac{152.5}{96} * 100$$

158.9

Science PI

$$\frac{(3) + 2(8) + 2.5(10)}{23} * 100$$

$$\frac{44}{23} * 100$$

191.3

Example: Core Subject Performance

Step 2: Calculate Core Subject Performance Index

$$\text{Core Subject Performance Index} = \frac{ELA\ PI\ Numerator + Math\ PI\ Numerator + Science\ PI\ Numerator}{ELA\ PI\ Denominator + Math\ PI\ Denominator + Science\ PI\ Denominator} * 100$$

School R – All Students Subgroup

Subject	# of Continuously Enrolled Students	# of Continuously Enrolled Tested Students	95% of Continuously Enrolled Students	# Level 1	# Level 2	# Level 3	# Level 4	PI Numerator
ELA	100	94	95	14	23	27	30	152
Math	100	96	95	13	28	26	29	152.5
Science	100	23	24	2	3	8	10	44

$$\frac{152 + 152.5 + 44}{94 + 96 + 23} * 100 = \frac{348.5}{213} * 100 = 163.6$$

Example: Core Subject Performance

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

School R – All Students Group Core Subject Performance Index = 163.6

Core Subject Performance Levels
All Students Group

Core Subject Performance Index	Level
0 – 86.5	1
86.6 – 131.2	2
131.3 – 158.1	3
158.2 – 250	4

Next Steps: Analyzing Results

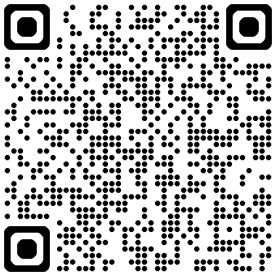
Data used for calculating the Weighted Average Achievement and Core Subject Performance indicators can be found in **SIRS 106 Reports.**

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 decision-making**, and **targeted interventions**.

How Can I Learn More?

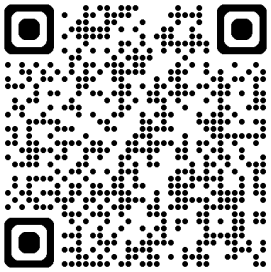
School and District Accountability Resources and Data webpage



https://www.nysed.gov/accountability/school-and-district-accountability-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 accountinfo@nysed.gov.

Thank you for joining us today!