



Virginia School Performance and Support Framework

Elementary Calculation Guide

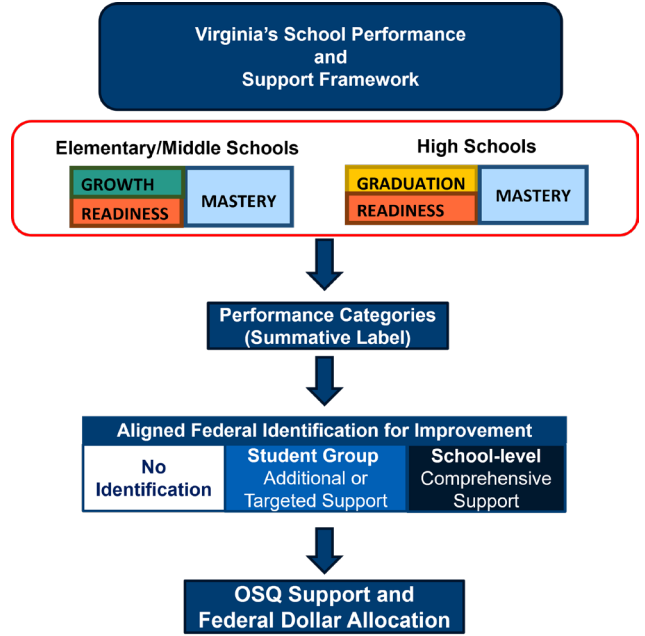
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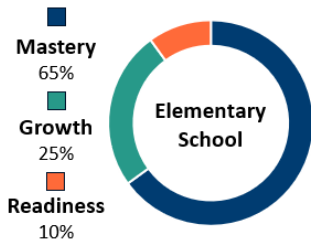
Virginia School Performance and Support Framework

The Virginia School Performance and Support Framework is designed to not only fulfill requirements under the Every Student Succeeds Act (ESSA) to identify specific categories of schools, but also provide a diagnostic tool all schools can use to identify the areas of strong performance and those areas in need of further support.

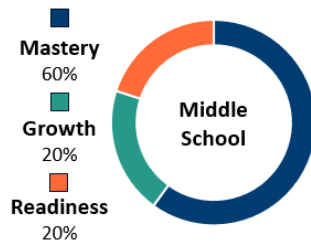
Schools' overall performance will be determined using an index, with weights depending on grade band, based on the three primary components: Mastery, Growth (for elementary and middle schools), Graduation (for high schools), and Readiness.



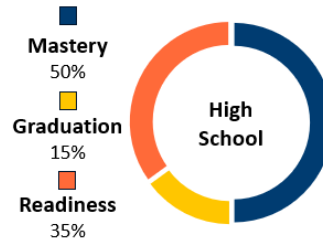
The School Performance and Support Framework is a weighted index. This model allows easy translation into the number of points earned or a score. All total scores will be out of 100, but component scores vary based on grade span.



| Elementary Schools | |
|--------------------|------------|
| Mastery | 65% |
| Growth | 25% |
| Readiness | 10% |
| Total | 100 |



| Middle Schools | |
|----------------|------------|
| Mastery | 60% |
| Growth | 20% |
| Readiness | 20% |
| Total | 100 |



| High Schools | |
|--------------|------------|
| Mastery | 50% |
| Graduation | 15% |
| Readiness | 35% |
| Total | 100 |

Indicators within Each Component

Elementary School

| | |
|--|--|
| GROWTH 25% <ul style="list-style-type: none"> Reading Expected Growth: 12.5% Math Expected Growth: 12.5% | MASTERY 65% <ul style="list-style-type: none"> Reading SOL/VAAP tests: 22.5% Math SOL/VAAP tests: 22.5% Science SOL/VAAP tests: 10% Progress in English Language Proficiency: 10% |
| READINESS 10% <ul style="list-style-type: none"> Chronic Absenteeism: 5% 5 C's Performance Task: 5% <small>Chronic Absenteeism will be 10% in the first year.</small> | |

Middle School

| | |
|--|--|
| GROWTH 20% <ul style="list-style-type: none"> Reading Expected Growth: 10% Math Expected Growth: 10% | MASTERY 60% <ul style="list-style-type: none"> Reading SOL/VAAP tests: 20% Math SOL/VAAP tests: 20% Science SOL/VAAP tests: 10% Progress in English Language Proficiency: 10% |
| READINESS 20% <ul style="list-style-type: none"> Chronic Absenteeism: 5% Advanced Coursework: 7.5% 5 C's Career Performance Task: 7.5% <small>Chronic Absenteeism & Advanced Coursework will be 10% in the first year.</small> | |

High School

| | |
|--|--|
| GRADUATION 15% <ul style="list-style-type: none"> Federal Graduation Indicator: 4-year Adjusted Cohort Rate | MASTERY 50% <ul style="list-style-type: none"> Reading SOL/VAAP tests: 15% Math SOL/VAAP tests: 15% Science SOL/VAAP tests: 10% Progress in English Language Proficiency: 10% |
| READINESS 35% <ul style="list-style-type: none"> Chronic Absenteeism: 5% 6-year Graduation Rate with Applied Studies: 5% Ready for Life 3E Framework: 25% <small>The Ready for Life 3E Framework focuses on students graduating high school ready for Enrollment, Employment, and/or Enlistment.</small> | |

SOL: Standards of Learning

VAAP: Virginia Alternate Assessment Program

3E: Enrollment, Employment, and Enlistment

Missing Indicators

In some cases, a school may be missing an indicator because the student group size is too small (below 15 students in the school) or the school does not have the grade level assessed for the indicator. For example, a K-4 school would not have the science indicator as science is tested in grade 5.

Progress in English Language Proficiency

If the English Learner student group is below 15, then the indicator weight is reallocated to the Growth component.

| Original Reading & Math in the Growth component | Reallocated Weight for Reading and Math in the Growth component |
|---|---|
| 12.5% | 17.5% |

Science

If the science indicator is missing, then the indicator weight is reallocated within the Mastery component.

| Original Reading & Math in the Mastery component | Reallocated Weight for Reading and Math in the Mastery component |
|--|--|
| 22.5% | 27.5% |

Calculating Index Results

Overview

The Virginia Index System provides indices at different levels:

- some indicators
- each component
- each reporting group
- the building overall

This section details the process of how each component and the overall building indices are calculated for elementary schools.

Calculation Process

The process to calculate indices has four stages:

1. Gather indicator data within each component
2. Calculate the indices for each applicable indicator
3. Calculate the component-level weights
4. Calculate the overall performance

Stage 1: Gather Data for each of the Components. Data sources vary by grade level.

- Mastery
 - Reading SOL/VAAP Tests
 - Math SOL/VAAP Tests
 - Science SOL/VAAP Tests
 - Progress in English Language Proficiency using ACCESS tests
- Growth
 - Reading Expected Growth
 - Math Expected Growth
- Readiness
 - Chronic Absenteeism
 - Performance Tasks (Not used in year one.)

Stage 2: Once the data is collected, indices are calculated for each indicator within the Mastery Component and the Growth Component.

Mastery Component

The Reading, Math, and Science Indicators use the following weights:

| Weighting | |
|--|------|
| Advanced Performance Level | 1.25 |
| Proficient Performance Level | 1.0 |
| Basic/Does not Meet Performance Level | 0.75 |
| Below Basic Performance Level | 0.25 |

| Reading Performance: Grades 3-5 | | | | | |
|--|-----------------|---|--------|--------|----------------------------|
| Performance Level | No. of Students | | Points | Total | Percent of Possible Points |
| Advanced | 124 | X | 1.25 | 155 | |
| Proficient | 186 | X | 1 | 186 | |
| Basic | 40 | X | 0.75 | 30 | |
| Below Basic | 15 | X | 0.25 | 3.75 | |
| Total | 365 | | | 374.75 | 102.67 |

Percent of Possible Points=Points Earned/No. of Students X 100

| Math Performance: Grades 3-5 | | | | | |
|-------------------------------------|-----------------|---|--------|--------------|----------------------------|
| Performance Level | No. of Students | | Points | Total Points | Percent of Possible Points |
| Advanced | 130 | X | 1.25 | 162.5 | |
| Proficient | 190 | X | 1 | 190 | |
| Basic | 40 | X | 0.75 | 30 | |
| Below Basic | 12 | X | 0.25 | 3 | |
| Total | 372 | | | 385.5 | 103.63 |

Percent of Possible Points=Points Earned/No. of Students X 100

Science Performance: Grade 5

| Performance Level | No. of Students | | Points | Total Points | Percent of Possible Points |
|-------------------|-----------------|---|--------|---------------|----------------------------|
| Advanced | 31 | X | 1.25 | 38.75 | |
| Proficient | 71 | X | 1 | 71 | |
| Does Not Meet | 16 | X | 0.75 | 12 | |
| Total | 118 | | | 121.75 | 103.18 |

Percent of Possible Points=Points Earned/No. of Students X 100

English Learner Progress

| | No. of Students | | Points | Total Points | Percent of Possible Points |
|---------------------------------|-----------------|---|--------|--------------|----------------------------|
| Students demonstrating progress | 15 | X | 1 | 15 | |
| Total | 20 | | | 15 | 75 |

Percent of Possible Points=Points Earned/No. of Students X 100

English Learner Progress on ACCESS for ELLs 2.0

| Previous Year Proficiency Level | Grades K-2 Current Year Level Must Increase By | Grades 3-5 Current Year Level Must Increase By | Grades 6-12 Current Year Level Must Increase By |
|---------------------------------|--|--|---|
| 1.0-2.4 | 1.0 | 0.7 | 0.4 |
| 2.5-3.4 | 0.4 | 0.4 | 0.2 |
| 3.5-4.4 | 0.2 | 0.2 | 0.1 |

Growth Component

Weighting

| | |
|-------------------------------|------|
| Above 1 Standard Error (S.E.) | 1.25 |
| Expected to 1 S.E. | 1.0 |
| -1 S.E. to Less than Expected | 0.50 |
| Below -1 S.E. | 0 |

Indicator: Reading Growth

| Value | No. of Students | Points | Total | Percent of Possible Points |
|---------------------------------|-----------------|--------|------------|----------------------------|
| Above 1 Standard Error (S.E.) | 112 | 1.25 | 140 | |
| Expected to 1 S.E. | 104 | 1 | 104 | |
| -1 S.E. to Less than Expected | 98 | 0.50 | 49 | |
| Below -1 S.E. | 51 | 0 | 0 | |
| Total number of Students | 365 | | 293 | |

Percent of Possible Points=Points Earned/No. of Students X 100

Indicator: Math Growth

| Value | No. of Students | Points | Total | Percent of Possible Points |
|---------------------------------|-----------------|--------|---------------|----------------------------|
| Above 1 Standard Error (S.E.) | 119 | 1.25 | 148.75 | |
| Expected to 1 S.E. | 110 | 1 | 110.00 | |
| -1 S.E. to Less than Expected | 102 | 0.50 | 51 | |
| Below -1 S.E. | 41 | 0 | 0 | |
| Total number of Students | 372 | | 309.75 | |

Percent of Possible Points=Points Earned/No. of Counted Students X 100

Stage 3: Calculate Component-level Weights

Component: Mastery Index

| Indicator | Points Earned | No. of Students | Percent of Possible Points | Weight | Index Value |
|--------------------------|---------------|-----------------|----------------------------|--------|-------------|
| Reading Performance | 374.75 | 365 | 102.67 | 22.5% | 23.10 |
| Math Performance | 385.5 | 372 | 103.63 | 22.5% | 23.32 |
| Science Performance | 121.75 | 118 | 103.18 | 10% | 10.32 |
| English Learner Progress | 15 | 20 | 75 | 10% | 7.5 |

Calculation:

- $\text{Percent of Possible Points} = \text{Points earned} / \text{Students} \times 100$
- $\text{Index Value} = \text{Percent of Possible Points} \times \text{Weight}$

Component: Growth Index

| Indicator | Points Earned | No. of Students | Percent of Possible Points | Weight | Index Value |
|-----------|---------------|-----------------|----------------------------|--------|-------------|
| Reading | 293 | 365 | 80.27 | 12.5% | 10.03 |
| Math | 309.75 | 372 | 83.27 | 12.5% | 10.41 |

Calculation:

- $\text{Percent of Possible Points} = \text{Points earned} / \text{Students} \times 100$
- $\text{Index Value} = \text{Percent of Possible Points} \times \text{Weight}$

Component: Readiness Index

| Indicator | Points Earned | No. of Students | Percent of Possible Points | Weight | Index Value |
|---------------------|---------------|-----------------|----------------------------|--------|-------------|
| Chronic Absenteeism | 81 | 725 | 11.17 | 10% | 8.88 |

Calculation:

- $\text{Percent of Possible Points} = \text{Points Earned} / \text{Students} \times 100$
- $\text{Index Value} = (100 - \text{Percent of Possible Points}) \times \text{Weight}$

Stage 4: Calculate Overall Performance

First, for each component, calculate the index value by summing the total of each indicator.

| Component: Mastery | | | | | |
|--------------------------|---------------|-----------------|----------------------------|--------|-------------|
| Indicator | Points Earned | No. of Students | Percent of Possible Points | Weight | Index Value |
| Reading Performance | 374.75 | 365 | 102.67 | 22.5% | 23.10 |
| Math Performance | 385.5 | 372 | 103.63 | 22.5% | 23.32 |
| Science Performance | 121.75 | 118 | 103.18 | 10% | 10.32 |
| English Learner Progress | 15 | 20 | 75 | 10% | 7.5 |
| Total | | | | 65% | 64.24 |



| Component: Growth | | | | | |
|-------------------|---------------|-----------------|----------------------------|--------|-------------|
| Indicator | Points Earned | No. of Students | Percent of Possible Points | Weight | Index Value |
| Reading | 293 | 365 | 80.27 | 12.5% | 10.03 |
| Math | 309.75 | 372 | 83.27 | 12.5% | 10.41 |
| Total | | | | 25% | 20.44 |



| Component: Readiness | | | | | |
|----------------------|---------------|-----------------|----------------------------|--------|-------------|
| Indicator | Points Earned | No. of Students | Percent of Possible Points | Weight | Index Value |
| Chronic Absenteeism | 81 | 725 | 11.17 | 10% | 8.88 |
| Total | | | | 10% | 8.88 |



Next, add each component to equal the summative score (out of 100).

| Component | Weight | Index Value | |
|--------------|--------|-------------|----------------------------|
| Mastery | 65% | 64.24 | |
| Growth | 25% | 20.44 | |
| Readiness | 10% | 8.88 | |
| Total | | 93.56 | Total Performance Category |

The Overall School Performance

| 93.56 Performance Category Total | Weight | Indicator | Points Earned | Students | Percent of Possible Points | Index Value |
|--|--------|---------------------|------------------|----------|-------------------------------------|----------------|
| Mastery 64.24 | 22.5% | Reading Performance | 374.75 | 365 | 102.67 | 23.10 |
| | 22.5% | Math Performance | 385.50 | 372 | 103.63 | 23.32 |
| | 10.0% | Science Performance | 121.75 | 118 | 103.18 | 10.32 |
| | 10.0% | El Progress | 15 | 20 | 75 | 7.50 |
| Growth 20.44 | 12.5% | Reading | 293.00 | 365 | 80.27 | 10.03 |
| | 12.5% | Math | 309.75 | 372 | 83.27 | 10.41 |
| Readiness 8.88 | 10.0% | Chronic Absenteeism | 81 | 725 | 11.17 | 8.88 |

Performance Categories

| Distinguished | On Track | Off Track | Needs Intensive Support |
|---|---|---|--|
| 90 points and above | 80-89 points | 65-79 points | Below 65 points |
| Schools are exceeding the state's expectation for growth, achievement, and readiness. Schools serve as models of best practices from which others learn. | Schools are meeting the state's expectation for growth, achievement, and readiness. Schools have access to general state supports and may also receive support for student groups. | Schools are not meeting the state's expectation for growth, achievement, and readiness. Schools will receive additional support from VDOE. | Schools are significantly not meeting the state's expectation for growth, achievement, and readiness. Schools will receive more intensive support (Tier 3) from VDOE. |