

Tennessee State Board of Education
Academic Framework - Technical Report and Definitions

The following document outlines the definitions, equations, or any additional technical information needed to interpret the academic performance framework measures.

Academic Growth for K-8 Schools

- Measure 1a – TVAAS overall composite index for one-year trend
 - The TVAAS overall composite index measures the overall growth at the school level from one year to the next year. The composite index includes academic growth on reading, math, science, and social studies TCAP for grades 3-8.
 - The composite index is reported on a 1-5 scale from TVAAS:

Level	Effective Rating	Description
Level 5	Most Effective	Schools whose students are making substantially more progress than the Standard for Academic Growth (the school's index is 2 or greater).
Level 4	Above Average Effectiveness	Schools whose students are making more progress than the Standard for Academic Growth (the school's index is equal to or greater than 1 but less than 2).
Level 3	Average Effectiveness	Schools whose students are making the same amount of progress as the Standard for Academic Growth (the school's index is equal to or greater than -1 but less than 1).
Level 2	Approaching Average Effectiveness	Schools whose students are making less progress than the Standard for Academic Growth (the school's index is equal to or greater than -2 but less than -1).
Level 1	Least Effective	Schools whose students are making substantially less progress than the Standard for Academic Growth (the school's index is less than -2).

- Measure 1b - Mean achievement level increase as a percent of achievement target
 - The following equation will be used to calculate this measure for schools:

$$\frac{[\text{Pct. Gain of 3}^{\text{rd}} \text{ Grade RLA Goal}] + [\text{Pct. Gain of 3}^{\text{rd}} \text{ Grade Math Goal}] + [\text{Pct. Gain of 7}^{\text{th}} \text{ Grade RLA Goal}] + [\text{Pct. Gain of 7}^{\text{th}} \text{ Grade Math Goal}] + [\text{Pct. Gain of 3-8 Reading Goal}] + [\text{Pct. Gain of 3-8 Math Goal}]}{\text{Number of data points in numerator}}$$

Number of data points in numerator

Attainment and Post-Secondary Readiness for K-8 Schools

- Measure 2a – Mean percent of students scoring Proficient or Advanced
 - The following equation will be used to calculate this measure:

$$\frac{\# \text{ of Proficient or Advanced (Math + RLA + Science)}}{\# \text{ of Valid Tests (Math + RLA + Science)}}$$

- Measure 2b - Percent of students in grade 4 or 8 that are projected by TVAAS to score 21 or above on the ACT college entrance exam composite by the end of high school
 - This measure will be pulled from the TVAAS data.
- Measure 2c - Percentile rank of school in Tennessee based on the 1-year Reward School Success Rate
 - The following 3-8 Success Rate equation will be used to calculate this measure. This is the equation that is used by the Tennessee Department of Education to identify the Reward schools for performance. Schools will then be put into percentiles based on their success rate.

$$\frac{\# \text{ of Proficient or Advanced (Math + RLA + Science)}}{\# \text{ of Valid Tests (Math + RLA + Science)}}$$

Gap Closure for K-8 Schools

- Measure 3 – Achievement of Gap Closure AMOs as set by the Tennessee Department of Education.
 - The school will receive credit for the number of gap closure AMOs out of four possible AMOs that they meet or exceed within a given year.

Academic Growth for 9-12 Schools

- Measure 1a – TVAAS overall composite index for one-year trend
 - The TVAAS overall composite index measures the overall growth at the school level from one year to the next year. The composite index includes academic growth on Algebra I, Algebra II, Biology I, English I, English II, English III, US History, and Chemistry for grades 9-12.
 - The composite index is reported on a 1-5 scale from TVAAS:

Level	Effective Rating	Description
Level 5	Most Effective	Schools whose students are making substantially more progress than the Standard for Academic Growth (the school's index is 2 or greater).
Level 4	Above Average Effectiveness	Schools whose students are making more progress than the Standard for Academic Growth (the school's index is equal to or greater than 1 but less than 2).
Level 3	Average Effectiveness	Schools whose students are making the same amount of progress as the Standard for Academic Growth (the school's index is equal to or greater than -1 but less than 1).
Level 2	Approaching Average Effectiveness	Schools whose students are making less progress than the Standard for Academic Growth (the school's index is equal to or greater than -2 but less than -1).
Level 1	Least Effective	Schools whose students are making substantially less progress than the Standard for Academic Growth (the school's index is less than -2).

- Measure 1b - Mean achievement level increase as a percent of achievement target
 - The following equation will be used to calculate this measure:

$$\frac{[\text{Pct. Gain of Algebra I Goal}] + [\text{Pct. Gain of Algebra II Goal}] + [\text{Pct. Gain of English II Goal}] + [\text{Pct. Gain of English III Goal}]}{\text{Number of data points in numerator}}$$

Number of data points in numerator

Attainment and Post-Secondary Readiness for 9-12 Schools

- Measure 2a – Mean percent of students scoring Proficient or Advanced
 - The following equation will be used to calculate this measure:

$$\frac{\# \text{ of Proficient or Advanced (Algebra I + Algebra II + English I + English II + English III + Biology I)}}{\# \text{ of Valid Tests (Algebra I + Algebra II + English I + English II + English III + Biology I)}}$$

- Measure 2b - Percent of students scoring 21 or above on the ACT (or the corresponding score of 980 on the SAT) college entrance exam Composite
 - This measure will be pulled from the Tennessee Department of Education data.
- Measure 2c - Percent of students graduating on-time with a regular high school diploma.
 - The following equation from the Tennessee Department of Education will be used to calculate this measure:

$$\frac{\# \text{ of students receiving a regular, on-time diploma}}{\# \text{ of student in graduation cohort}}$$

- Measure 2d - Percentile rank of school in Tennessee based on the 1-year Reward School Success Rate
 - The following 3-12 Success Rate equation will be used to calculate this measure. This is the equation that is used by the Tennessee Department of Education to identify the Reward schools for performance. Schools will then be put into percentiles based on their success rate.

$$\frac{\# \text{ of Proficient or Advanced (RLA + Math + Science + Algebra I + Algebra II + English I + English II + English III + Biology I + Graduates)}}{\# \text{ of Valid Tests (RLA + Math + Science + Algebra I + Algebra II + English I + English II + English III + Biology I + Graduation Cohort)}}$$

Gap Closure for 9-12 Schools

- Measure 3 – Achievement of Gap Closure AMOs as set by the Tennessee Department of Education.
 - The school will receive credit for the number of gap closure AMOs out of four possible AMOs that they meet or exceed within a given year.