Business Rules for Calculating the ESSA School Index Scores

This document details the business rules used to calculate ESSA School Index Scores. These business rules are in draft form to provide transparency in the process and enable stakeholders to provide feedback to clarify processes. The business rules reflect the details that support the ESSA School Index as described in the Arkansas plan for the Every Student Succeeds Act.

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Overview

The ESSA School Index score is the sum of weighted indicator scores. The ESSA School Index consists of the following indicators.

- **Weighted Achievement** (scores range from 0 to 125. Includes English/Language Arts (ELA) and math).
- **School Value-Added Growth** (Content Growth plus English Learner (EL) Growth. Scores range from 60 to 110 points. In some cases when the proportion of ELs is at a high level and the ELs growth score is at a high level the School Value-Added Growth score may reach 110 points.)
  - **Content Growth** (ELA and math growth scores combined for each student— scores range from 60 to 100 points.)
  - **EL Value-Added Growth**: EL progress to English Language Proficiency (ELP) at a weight that is proportional to number of ELs. (Scores range from 0 to 135 due to higher variability of EL Value-Added Scores among schools.)
- **Adjusted Cohort Graduation Rate**
  - **Four-year Adjusted Cohort Graduation Rate** (rates range from 0 to 100)
  - **Five-year Adjusted Cohort Graduation Rate** (rates range from 0 to 100)
- **School Quality and Student Success** (up to 100 points)
  - **Student Engagement** (Risk level due to Chronic Absence)
  - **Science Achievement**
  - **Science Growth in Achievement**
  - **Reading at Grade Level**
  - **ACT Composite Score**
  - **ACT Readiness Benchmark Scores**
  - **Final High School GPA**
  - **Community Service Learning Credits Earned**
  - **On-time Credits Earned**
  - **Computer Science Credits Earned**
  - **Advanced Placement/International Baccalaureate/Concurrent Credit Course Credits Earned** (Including ACE Concurrent Credit Courses)

Each school is assigned to a grade span based on the grades the school serves (grade range of school). Grade span categories for each grade range are indicated below. The grade spans are determined in a logical manner based on the grade levels assessed on the statewide assessments. If a school grade range includes the majority of tested grades within a span, then the school is assigned to the grade span with other schools whose majority of grades are within the same grade span for comparability purposes. When a school configuration has an equal number of assessed grades for two grade spans, then the school is included in the higher grade span for comparability purposes. This is important given the weights of weighted achievement and growth in the ESSA School Index and the different components of the School Quality Student Success indicator as described in the business rules that follow this overview.

Schools with special situations due to grade configurations are addressed at the end of the document. This includes feeder schools (no tested grades and schools in the high school range that do not have a graduation rate.
Arkansas stakeholders included the required indicators in the customized ESSA School Index and identified weights to each indicator to determine the contribution of each indicator to the total ESSA School Index score for each school.

Arkansas’ ESSA School Index weights are detailed below.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight of Indicator within Index Grades K – 5 &amp; 6 - 8</th>
<th>Component</th>
<th>Weight of Indicator within Index High Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weighted Achievement Indicator</td>
<td>35%</td>
<td>Weighted Achievement and Academic Growth</td>
<td>70% total with Weighted Achievement accounting for half (35%) and School Growth Score accounting for half (35%)</td>
</tr>
<tr>
<td>Growth Indicator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Academic Growth</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Language Progress</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Progress to English Language Proficiency*</td>
<td>Weight of indicator in School Value-Added Growth Score is proportionate to number of English Learners</td>
<td>Progress to English Language Proficiency*</td>
<td>Weight of indicator in School Value-Added Growth Score is proportionate to number of English Learners</td>
</tr>
<tr>
<td>Graduation Rate Indicator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Year Adjusted Cohort Rate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-Year Adjusted Cohort Rate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School Quality and Student Success Indicator</td>
<td>15%</td>
<td></td>
<td>15%</td>
</tr>
</tbody>
</table>

Arkansas stakeholders included the required indicators in the customized ESSA School Index and identified weights to each indicator to determine the contribution of each indicator to the total ESSA School Index score for each school.

Arkansas’ ESSA School Index weights are detailed below.
Business Rules by Indicator and Components of Indicators

The following tables provide the detailed business rules for each indicator. Some indicators have multiple components and these components are detailed within the description of the indicator.

<table>
<thead>
<tr>
<th>Description of Component or Indicator</th>
<th>Participation—Percent Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>To calculate assessment participation (95% tested), all students are included: full-academic year and highly mobile students. Percent Tested is included in the ESSA School Index calculation to the extent that if schools do not test 95% of students or 95% of a subgroup of students, the denominator for achievement calculations are adjusted to 95% of students expected to test at the school or in the subgroup as per ESEA Section 1111 (c)(4)(e)</td>
<td></td>
</tr>
</tbody>
</table>

**Participation data**

- Student enrollment, identification, and demographic information must be entered accurately into eSchool by 4 pm the day before the designated download date for participation data.
- Participation information is downloaded from TRIAND which updates student information nightly from eSchool, starting at 4 p.m. Participation download date for 2017 was May 5.
- The date for the participation download is determined by ADE Office of Student Assessment and the Public School Accountability division. For 2018, the student enrollment data used to determine each school’s students who are expected to test will be downloaded from TRIAND on May 7th, 2018.
- Full academic year and highly mobile students enrolled in a school at the time of testing are expected to take the state achievement test. Students who are continuously enrolled in a particular school on or before October 1st through the test window are considered full academic year students (not highly mobile).

**Included Subgroups**

1. All Students – All students in the school.
2. White – Student identified race is White and no other race or ethnicity is indicated.
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. Student with Disability(ies) – Student is indicated as receiving special education services.

**Assessments & Grade Levels Included**

1. ACT Aspire, Grades: 3 – 10
2. Multi-State Alternate Assessment (MSAA) for English Language Arts (ELA) and math, Grades: 3 – 8, 11 for students flagged for alternate ELA and math assessment.
3. Arkansas Alternative Portfolio Assessment for Science (APA Science), Grades: 5, 7, 10, for students flagged for alternate science portfolio

**Included Subjects**

1. Math
2. ELA
3. Science

**Students excluded from calculations**

1. Students are removed from enrollment based on the following resident codes downloaded from TRIAND for the participation data:
   a. Resident Codes X, 1, 2, and 4 (Home school codes)
### Participation—Percent Tested

b. Educational Placement Codes Correctional Facility (CF), Private Residential (RI), Parent Placed (PP), Hospital/Homebound (HH)

2. Students automatically excluded from percent tested calculations are students with the following Reasons Not Tested:
   - **ACT Aspire**
     1. Incarcerated/ Juvenile Detention
     2. EL Less than 1 year (ELA) -- Beginning in 2018 EVERY student will be expected to test.
     3. Moved to a different state/out of country
     4. Deceased
   - **MSAA**
     1. Exempt (ELA) only for EL Less than 1 year-- Beginning in 2018 EVERY student will be expected to test.
     2. Exempt
     3. Administration Irregularity
   - **APA Science**
     1. Moved to a different state/out of country
     2. Out-of-state transfer student enrolled after January 15, 2017
     3. Participated in regular assessment
     4. Health problems or pregnancy resulted in extended absence or death

### Determining percent tested

Perform the following calculations for all students and each subgroup of students:

1. Count the number of students who tested (tested flag = 1) and those who were expected to test but did not (tested flag = 0) by subject for each of the ESSA subgroups at each school.
2. Sum the two counts (tested flag = 1 and tested flag = 0) to produce the total number of students expecting to test at each school by subject for each of the ESSA subgroups.
3. Determine the percent tested for each subgroup as the number who actually tested divided by the number expected to test as in the formula below.

\[
\text{Percent Tested} = \left( \frac{\text{# students tested}}{\text{# students expected to test}} \right) \times 100
\]

4. Round percent tested calculation to two decimal places.

### Adjustment for Testing Fewer than 95%

For any school that did not test at least 95% in ELA and/or math for any group (all students and/or any subgroup of students), an adjusted denominator will be calculated for use in the **Weighted Achievement Score**.

The adjusted denominator for any group is the number that is equal to 95% of the number of students expected to test for that group/subject. The adjusted denominator will be truncated (rounded down) to the lowest whole number in the case where 95% results in a fraction of a student.

### Variables in final Percent Tested Table

- District LEA
- District Name
- School LEA
- School Name
- Subgroup
- Number of students tested in Math
- Total number of students expected to test for Math
- Percent of students tested in Math
- Number of students that equal 95% of those expected to test in Math
- Number of students tested in ELA
- Total number of students expected to test for ELA
- Percent of students tested in ELA
- Number of students that equal 95% of those expected to test in ELA
### Participation—Percent Tested

- Number of students tested in Science
- Total number of students expected to test for Science
- Percent of students tested in Science
- Number of students that equal 95% of those expected to test in Science

### Weighted Achievement (Math and ELA)

| Description of Component or Indicator |Arkansas will use a non-compensatory Weighted Achievement calculation within the ESSA School Index to incorporate academic achievement into its annual meaningful differentiation of schools. Weighted Achievement refers to assigning point values to each of the four achievement levels on Arkansas’s grade level assessments for math and English Language Arts (ELA) (criteria iii), aggregating those points at the school level for all students and for each student group (criteria iii), and calculating the proportion of points earned by a school based on the number of full-academic year students tested at the school. *Models are said to be non-compensatory when good performance on one evaluative criterion does not offset or compensate for poor performance on another evaluative criterion. Note: The four achievement levels for ELA are not provided in the ACT Aspire vendor provided reports. Only a readiness determination is provided for ELA. The cut scores for the four achievement levels for ELA are provided in Appendix A. |
|---|
| Included Subgroups | 1. All Students – All students in the school.  
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.  
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.  
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.  
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.  
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).  
7. Student with Disability(ies) – Student is indicated as receiving special education services. |
| Assessments & Grade Levels Included | 1. ACT Aspire, Grades: 3 – 10  
2. Multi-State Alternate Assessment (MSAA) for English Language Arts (ELA) and math, Grades: 3 – 8, 11 for students flagged for alternate ELA and math assessment. |
| Included Subjects | 1. Math  
2. ELA |
| Students excluded from calculations | 1. Students automatically excluded from percent tested calculations are students with the following Reasons Not Tested:  
   a. **ACT Aspire**  
      (1) Incarcerated/ Juvenile Detention  
      (2) EL Less than 1 year (ELA) – Beginning in 2018 EVERY student will be expected to test.  
      (3) Moved to a different state/out of country  
      (4) Deceased  
   b. **MSAA**  
      (1) Exempt (ELA) only for EL Less than 1 year  
      (2) Exempt  
      (3) Administration Irregularity  
   2. Exclude Foreign Exchange students from calculations.  
   3. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND. |
### Weighted Achievement (Math and ELA)

<table>
<thead>
<tr>
<th>4.</th>
<th>Exclude students who are not full academic year (highly mobile students) from accountability calculations, respectively. Full academic year students are those who were continuously enrolled on or before October 1 through the test window.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td>Students who do not have a test score are excluded from Achievement calculations.</td>
</tr>
</tbody>
</table>

#### Determining Weighted Achievement

For each subgroup, perform the following calculations:

1. Count the total number of full academic year students tested for each of ELA and math. These totals will serve as the denominators in achievement calculations for each subject unless the group tested less than 95%, as mentioned previously.

2. Count into one amount the number of full academic year students who scored at each achievement level for ELA and Math including MSAA observations and ACT Aspire observations to obtain the totals for each level: L1, L2, L3 and L4.

3. Calculate the weighted achievement score. If the number of L4 students exceeds the number of L1 students, then calculate the weighted achievement score as:

   $$\text{weighted Achievement score} = \left( \frac{-0.25L1 + 0.5L2 + 1L3 + 1.25L4}{L1 + L2 + L3 + L4} \right) \times 100$$

   This equation results in multiplying the difference in the number of L4 students and L1 students by 1.25 and the number of L4 students equal to or fewer than the number of L1 students by 1.00.

   If the number of L4 students is equal to or fewer than the number of L1 students, then calculate the weighted performance score as:

   $$\text{weighted Achievement score} = 100 \times \left( \frac{0.5L2 + L3 + L4}{L1 + L2 + L3 + L4} \right)$$

### Content Growth Score

#### Description of Component or Indicator

Students’ math and English Language Arts (ELA) value-added growth scores are averaged to obtain the content value-added growth score (Content VAS). The content VAS for a school indicates, on average, the extent to which students in the school grew in math and ELA achievement compared to how much we expected them to grow, accounting for how the students had achieved in prior years.

#### Included Subgroups

1. All Students – All students in the school.
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. Student with Disability(ies) – Student is indicated as receiving special education services.

#### Assessments & Grade Levels Included

1. Past Tests Included if part of students’ score histories:
   - ACT Aspire, Grades 3 - 10
   - Arkansas Benchmark Exam, Grades: 3 - 8
   - End Of Course (EOC) Algebra Exam, Grades 8 - 12
   - EOC Geometry Exam, Grades 8 - 12
   - PARCC Exam, Grades 3 - 10
   - ITBS, Grades 1 - 2
## Content Growth Score

- Beginning in 2018, Grades 1 and 2 assessments from districts’ selected vendors will be studied for use in student score histories for value-added growth calculations.

2. Current Tests Included:
   - ACT Aspire, Grades 3 - 10
   - ITBS, Grades 1 – 2
   - Beginning in 2018, Grades 1 and 2 assessments from districts’ selected vendors will be evaluated for use in student score histories for value-added growth calculations. These assessments are from NWEA, I-Station, and Renaissance.

### Included Subjects

<table>
<thead>
<tr>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
</tr>
<tr>
<td>ELA</td>
</tr>
</tbody>
</table>

### Student Scores Included in Calculations

1. Students in Grades 3 – 10 with current year scores on the ACT Aspire are included in calculations. Score histories are constructed for these students using their current year score and up to four prior years of assessment scores.

2. Four prior years of assessment scores for students in Grades 3 – 10 include their prior scores from assessments in Grades 1-9 in ELA and in math which may include Algebra &/or Geometry End of Course Exams (EOCs).
   - a. Scores from students’ assessments in Grades 1 and 2 are only used for Grade 3 students’ score histories when available to enable growth calculations for Grade 3 students.
   - b. Algebra and Geometry scores from prior years of the Arkansas Benchmark Exam and/or PARCC Exam for students who were in Grades 8 - 10 at the time are included in students’ score histories where applicable.

3. Grades 3 – 10 science scores for 2016 and 2017 ACT Aspire were used for science growth. Science growth is available for Grades 4 – 10.

### Students Excluded from Calculations

1. Exclude students with scores from the MSAA ELA and math assessments and the APA Science assessments.

2. Exclude students who do not have a current year test score.

3. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND.

4. Exclude students who are highly mobile from aggregations. However, highly mobile students are included in calculations of individual student growth scores.

### Special Student Level Considerations

1. For students who were retained or repeated a course (Algebra and/or Geometry), their most recent score for the retained grade/course is used in their score history.

2. ELA scores for students in Grades 1 and 2 are the average of the ITBS Language and Reading Scale Scores.

### Student Growth Score Calculations

1. Student score histories are compiled by subject and contain from two to five data points.

2. Scores are standardized by year, subject, grade and test group to support a growth model calculation across the different assessments.

3. Controlling for English language level: Students’ English Language Proficiency (ELP) levels for the current year (ELPA21 Levels 1, 2 or 3) are included at the student level of the model to control for students’ English Learning levels. If a student is not indicated as an EL student, the student is designated “English Only” thus the student was no expected to take the ELP assessment and therefore does not have an ELPA21 score. English Only students are assigned as English Proficient (ELPA21 Level 3).

4. For each subject, standardized scores of students with more than one year of data are put into a mixed model from which a predicted score and residual (difference between actual score and predicted score) are calculated conditioned on student’s individual achievement score history and student’s ELP.
5. Calculate a combined student growth score by averaging the math and ELA growth scores for each student. If the students only tested in ELA or math, that content score will be the students combined growth score.

<table>
<thead>
<tr>
<th>Determining Mean School ELA and Math VAS</th>
<th>Perform the following calculations for math and ELA to determine the average school value-added content scores:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Count the total number of full academic year students tested for all students and for each subgroup. These totals will serve as the denominators for the mean school calculations.</td>
</tr>
<tr>
<td></td>
<td>2. Sum the student content growth scores of full academic year students for all students and each subgroup.</td>
</tr>
<tr>
<td></td>
<td>3. Determine the school level mean growth scores (Math (Math VAS) and ELA (ELA VAS)). The school level mean growth score for each subject can be calculated by summing the student growth scores for full academic year students and dividing by the total number of full academic year students with growth scores.</td>
</tr>
<tr>
<td></td>
<td>For example, the math growth score for each school’s all students group is calculated using the following formula:</td>
</tr>
</tbody>
</table>
|                                         | \[
|                                         | \[
|                                         | Math_{\text{all VAS}} = \left( \frac{\sum \text{math growth scores of all students at the school}}{\text{Total number of students at the school with a math growth score}} \right) \]
|                                         | 4. School growth scores for all students and for each subgroup are transformed to a 100-point scale where a score of 80 represents that students, on average, are meeting expected growth in the school. |
|                                         | For example, the math transformed score is calculated using the following formula: |
|                                         | \[
|                                         | Math_{\text{all VAS Transformed}} = (35 \times Math_{\text{all VAS}}) + 80 \]

<table>
<thead>
<tr>
<th>Determining Mean School Combined ELA/Math Content VAS</th>
<th>1. The school mean Content VAS can be calculated by summing the content growth scores of full academic year students and dividing the sum by the total number of full academic year students with combined growth scores. The school level mean Content VAS is calculated using the following formula:</th>
</tr>
</thead>
</table>
|                                                      | \[
|                                                      | \[
|                                                      | \[
|                                                      | Content VAS = \left( \frac{\sum \text{content growth scores}}{\text{Total number of students with a content growth score}} \right) \]
|                                                      | 5. To include school mean Content VAS in the ESSA School Index, the values must be transformed to a 100 point scale that will work within the total point scale for the rating system. A score of ~80 represents expected growth. Content VAS are transformed using the equation below. |
|                                                      | \[
|                                                      | Content VAS Transformed = (35 \times Content VAS) + 80 \]

<table>
<thead>
<tr>
<th>Variables in Final Content Growth Table</th>
<th>• District LEA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• District Name</td>
</tr>
<tr>
<td></td>
<td>• School LEA</td>
</tr>
</tbody>
</table>
### Content Growth Score

- School Name
- Subgroup
- Test Group
- Math N
- Math School VAS
- ELA N
- ELA School VAS
- Combined Content Growth N (the number of students with math and/or ELA; a score-single count)
- School Content VAS
- School Content VAS Transformed
- Content VAS Standard Error of the Mean Transformed
- Content VAS Lower Confidence Limit Transformed
- Content VAS Upper Confidence Limit Transformed
- Math VAS Standard Error of the Mean
- Math VAS Lower Confidence Limit
- Math VAS Upper Confidence Limit
- ELA VAS Standard Error of the Mean
- ELA VAS Lower Confidence Limit
- ELA VAS Upper Confidence Limit
- ELA VAS Confidence Interval

### ELP Growth Score

<table>
<thead>
<tr>
<th>Description of Component or Indicator</th>
<th>A mean English Language Proficiency value-added growth score (ELP VAS) is obtained for each school that has one or more English learners. The ELP VAS indicates, on average, the extent to which students in the school grew in English Language Proficiency (ELP) compared to what was expected, accounting for how the student had been progressing in English language in prior years.</th>
</tr>
</thead>
</table>
| Included Subgroups                   | 1. All Students – All students in the school.  
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.  
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.  
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino(a). A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.  
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.  
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).  
7. Student with Disability(ies) – Student is indicated as receiving special education services. |
| Assessments & Grade Levels Included   | 1. Past Test Included:  
• ELDA, Grades K - 12  
2. Current Test Included:  
• ELPA21, Grades: K - 12 |
| Student Observations Included in Calculations | 1. Student score histories contain from two to five data points: current year ELPA21 scores and up to four prior years of assessment scores.  
2. Scores are standardized by year, grade, and test group to support a growth model calculation across the different assessments. |
3. If a student has more than one ELP score for a given year, the observation with the highest score for that student will be retained.
4. Scores for students with current grade values of K-12 are included.
5. Demographics of ELs who have assessments in math, ELA, and/or science will be assigned the demographics from the content test as those have gone through the corrections process. If no content test exists for the student, demographics from the ELP assessment will be used.
6. Highly mobile students are included in calculations of student growth scores, but excluded from aggregations of school level ELP VAS.

Scores for Students Excluded from Calculations
1. Exclude students who do not have a current year test score.
2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND.

Student ELP Growth Score Calculations
1. Current students are matched with their prior years of ELP assessment scores to construct an ELP score history for the student.
2. Scores are standardized within grade level and test for each year.
3. Standardized scores of students with more than one year of data are put into a mixed model from which a predicted score and residual (difference between actual score and predicted score) are calculated from a student’s individual ELP achievement score history.
4. Students’ initial English language proficiency level (values of 1–5 for ELDA and values of 1–3 for ELPA21) are included in the model along with the year of their initial assessment to control for ELs entry language and test given their entry year.

Determining Mean School ELP VAS
Repeat the following steps for the all students group and all subgroups.
1. Count the total number of full academic year students with an ELP growth score tested at each level. This total will serve as the denominator for the mean ELP VAS calculation.
2. Sum ELP growth scores of full academic year students.
3. Determine the school mean ELP VAS by dividing the sum of the ELP growth for full academic year students by the total number of full academic year students with an ELP growth score. The ELP growth score is calculated using the following formula:
   \[ ELP \text{ VAS} = \frac{\sum EL \text{ growth scores}}{\text{Total number students with EL growth Scores}} \]
4. To include school mean ELP VAS in the ESSA School Index, the values must be transformed to a 100 point scale that will work within the total point scale for the rating system. A score of ~80 represents expected growth. ELP VAS are transformed using the equation below.
   \[ ELP \text{ VAS Transformed} = (35 \times ELP \text{ VAS}) + 80 \]

Variables in Final ELP Growth Table
- District LEA
- District Name
- School LEA
- School Name
- Subgroup
- ELP N
- School ELP VAS
- ELP VAS Standard Error of the Mean
- Lower ELP VAS Confidence Limit
- Upper ELP VAS Confidence Limit
- ELP VAS Confidence Interval
## School Value Added Growth Score

### Description of Component or Indicator

School value-added growth scores (VAS) include student growth in the content areas of math and English Language Arts (ELA) as well as student growth in English Language Proficiency (ELP). A weighted sum of the Content VAS and ELP VAS is divided by the total number of students contributing to the overall School Value Added Growth Score in which each full academic year English Only student counts only once in the content growth component and each full academic year English Learner (EL) student can count once for content (assuming there is a content score) and once for ELP Growth.

### Groups Calculated

1. All Students – All students in the school.
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. Student with Disability(ies) – Student is indicated as receiving special education services.

### Calculation

1. Determine the total number of full academic year students to be counted in Growth. A student will count only once for their content growth score. If a student has a content growth score and an ELP growth score, the student will count twice in the overall school value-added growth calculation.

   \[
   \text{Number of Students in Growth Calculation} = \frac{\text{# of students with a combined content growth score}}{\text{# of students with an ELP Growth Score}} + \frac{\text{# of students with an ELP Growth Score}}{\text{# of students with a combined content growth score}}
   \]

2. Calculate the School Value-added Growth Score with a weighted average of combined content growth and ELP growth.

   \[
   \text{School Value Added Growth} = \frac{\# \text{in Combined Content Growth}}{\text{Content Growth Score}} \times \left( \frac{\text{Transformed School Growth}}{\# \text{in ELP Growth}} \right) \times \left( \frac{\text{Transformed School ELP Growth Score}}{\# \text{in ELP Growth}} \right)
   \]

3. Calculate a two-year* weighted average of the School Valued-added Growth Score to be used for schools who have less than 15 students in the Growth Calculation.

   \[
   \text{Number of Students in 2yr Growth Calculation} = \frac{\text{Number of Students in 2016 Growth Calculation}}{\text{2016 School Value Added Growth}} + \frac{\text{Number of Students in 2017 Growth Calculation}}{\text{2017 School Value Added Growth}}
   \]

   \[
   \text{School 2 yr Value Added Growth} = \frac{\text{Number of Students in 2yr Growth Calculation}}{\text{2016 School Value Added Growth}} \times \left( \frac{\text{2016 School Value Added Growth}}{\# \text{in 2yr Growth Calculation}} \right) \times \left( \frac{\text{2017 School Value Added Growth}}{\# \text{in 2yr Growth Calculation}} \right)
   \]

*Starting with the 2017-2018 school year, when the All Students group has fewer than 15 students, a three-year weighted average will be used for the School Value-added Growth Score.
### Graduation - 4 year Adjusted Cohort

**Description of Component or Indicator**

Students are expected to graduate within four years. A student will be identified for an adjusted cohort group by the year the student is first enrolled as a ninth grade student. Early graduates will be credited to the four-year adjusted cohort group created in which the student enrolled as a ninth grade student.

**Included Subgroups**

1. **All Students** – All students in the school.
2. **White** – Student’s race is identified as White and no other race or ethnicity is indicated.
3. **African American** – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. **Hispanic/Latino(a)** – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. **Economically Disadvantaged** – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
6. **English Learner** – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. **Student with Disability(ies)** – Student is indicated as receiving special education services.

**Excluded Students**

Students are removed from a school’s cohort if the student:

- Transfers out;
  - a. An on-time student enroll in another school in Arkansas (SIS withdrawal code = 1 and student enrolls as on-time for his/her cohort in the school to which he/she transfers);
  - b. Enrolled in a home school (SIS withdrawal code = 17)
  - c. Enrolled in a private school (SIS withdrawal code = 16)
  - d. Enrolled in a school in another state or emigrates to another country (SIS withdrawal code = 18)
- Dies during that same period (SIS withdrawal code = 3).
- Beginning in 2018, students who transfer to a prison or juvenile facility (SIS withdrawal code = 2); or home schooled students enrolled under Resident Codes 1, 2, or 4 will be removed from the cohort if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND.

### Determining 4-year cohort graduation rate

\[
\text{# actual graduates (as reported in Cycle 9 Graduates table)}
\]

\[
\text{# initial cohort + # ontime transfers in} - \text{# of students who transfer out of cohort}
\]

Actual Graduates = Number of cohort members who earned a regular high school diploma by the end of the school year four years after the year the cohort was established.

For example, first time ninth graders in the 2012-2013 school year will be expected to graduate in the 2015-2016 school year. If a student who is a first time ninth grader in the 2012-2013 school year graduates in the 2015-2016 school year, and is included in the Cycle 9 graduates table submitted by the school district, the student will be counted in the number of actual graduates.

Initial Cohort = Number of first-time grade 9 students in fall of cohort starting year (starting cohort). If a school is configured as a Grades 10-12 or 11-12 high school, the Initial Cohort is the first time Grade 10 and first time Grade 11 students, respectively.

Adjustments = The Initial cohort is adjusted by the number of students who transfer in during the four school years (three years for Grades 10-12 and two years for Grades 11-12 schools) of the
cohort and the number of students who transfer out, emigrate to another country, transfer to a prison or juvenile facility, or die during the four schools years for the cohort.

Certified data from Cycles 2 – 7 are used to adjust the cohort for transfers in and transfers out. Students’ School LEAs in the adjusted cohort are the School LEAs where the students were last considered on-time based on grade level and expected progression from entry in the cohort.

- First time Grade 9 students are expected to be in grades 10, 11, and 12 in the three successive years of their cohort. For Grades 10-12 schools, first time Grade 10 students are expected to progress to grades 11 and 12 in the successive two years. For Grades 11-12 schools, first time Grade 11 students are expected to progress to Grade 12 in their second year in the cohort.
- Grade level of the student in each cycle is used to determine if a student transfers in ‘on-time’. A student can fall behind and catch up within the same year or across multiple years.
- If a student transfers into a school and appears to have repeated a grade, based on grade level in initial cohort and expected grade level at transfer in, then the student is no longer on-time and is not added to the school’s cohort to which the student transfers. Instead, the student is retained in the school cohort in which the student was last on-time as indicated by whether the grade level of the student meets or exceeds the expected grade-level.
- If a student repeats a grade or falls behind within the same school year and later catches up, and that student transfers into another school at the grade level expected based on the student’s entry into the new school, then the student is removed from the former cohort and added to the transfer school’s cohort as an on-time transfer.
- Early graduates should be properly coded as early graduates and counted in the cohort that is the students’ first on-time Grade 9 (schools with Grades 9-12), first on-time Grade 10 (schools with Grades 10-12), or first on-time Grade 11 (schools with Grades 11-12). Early graduates are not counted in the year they graduate as they are not part of that particular adjusted cohort.
- Note: for Grades 10-12 schools, the cohort is determined by first time tenth graders. If a student repeated ninth grade and enrolls in a Grade 10-12 school as a first time tenth grader, the student becomes part of the Grades 10-12 school’s cohort. The same is true for students in Grades 11-12 schools. The student is considered an on-time student in the school’s cohort if they are first time eleventh grader, regardless of whether the student repeated Grade 9 and/or Grade 10.
- Actual Graduates are those students listed as graduated in the certified Cycle 9 Graduates table for the year of expected graduation for cohort. The TRIAND transcript system is not used to pull graduation status of students in the initial calculation of the adjusted cohort graduation rate. Only certified Cycle 9 data are used.

<table>
<thead>
<tr>
<th>Determining a three-year 4-year cohort graduation rate for schools who did not have at least 15 students expected to graduate in 2016.</th>
<th>If a school has fewer than 15 students in the expected graduates of the 4-year adjusted cohort then a three-year weighted average of the 4 Yr. Adjusted Cohort Graduation Rates is calculated using the following formula.</th>
</tr>
</thead>
<tbody>
<tr>
<td>$3Yr. \text{Weighted Ave.} \quad ACGR \text{ for 2016} = \frac{# \text{ in } 2014 \text{ Cohort (ACGR14)} + # \text{ in } 2015 \text{ Cohort (ACGR15)} + # \text{ in } 2016 \text{ Cohort (ACGR16)}}{# \text{ in } 2014 \text{ Cohort} + # \text{ in } 2015 \text{ Cohort} + # \text{ in } 2016 \text{ Cohort}}$</td>
<td>$3Yr. \text{Weighted Average} \quad ACGR \text{ for 2016} = \frac{15 \text{ in } 2014 \text{ Cohort (89.00)} + 11 \text{ in } 2015 \text{ Cohort (95.00)} + 7 \text{ in } 2016 \text{ Cohort (100.00)}}{15 \text{ in } 2014 \text{ Cohort} + 11 \text{ in } 2015 \text{ Cohort} + 7 \text{ in } 2016 \text{ Cohort}}$</td>
</tr>
</tbody>
</table>
### Graduation - 4 year Adjusted Cohort

\[
3\text{Yr. Weighted Average ACGR for 2016} = \frac{1335 + 1045 + 700}{33}
\]

\[
3\text{Yr. Weighted Average ACGR for 2016} = \frac{3080}{33}
\]

\[
3\text{Yr. Weighted Average ACGR for 2016} = 93.33
\]

### Variables in Final Four-Year Graduation Table

- District LEA
- District Name
- School LEA
- School Name
- Subgroup
- N Actual Graduates 2016
- N Expected Graduates 2016
- Graduation Rate 2016
- N Actual Graduates 2015
- N Expected Graduates 2015
- Graduation Rate 2015
- N Actual Graduates 2014
- N Expected Graduates 2014
- Graduation Rate 2014
- 3 Yr N Actual Graduates
- 3 Yr N Expected Graduates
- 3 Yr Graduation Rate

### Graduation - 5 year Adjusted Cohort

Students will be identified for an adjusted cohort group by the year the student is first enrolled as a Grade 9 student. Students that graduate in five years, one year following the expected graduation date, will be counted in the five-year adjusted cohort graduation rate as a successful graduate. This new graduation rate that includes the 5-year graduates is considered the 5-year graduation rate.

### Included Subgroups

1. All Students – All students in the school.
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. Student with Disability(ies) – Student is indicated as receiving special education services.

### Excluded Students

Students are removed from a school’s cohort if the student:
- Transfers out;
### Graduation- 5 year Adjusted Cohort

- An on-time student enroll in another school in Arkansas (SIS withdrawal code = 1 and student enrolls as on-time for his/her cohort in the school to which he/she transfers);
- Enrolled in a home school (SIS withdrawal code = 17)
- Enrolled in a private school (SIS withdrawal code = 16)
- Enrolled in a school in another state or emigrates to another country (SIS withdrawal code = 18)
- Dies during that same period (SIS withdrawal code = 3).

### Determining 5-year cohort graduation rate

\[
\text{Determining 5-year cohort graduation rate} = \frac{\# \text{ actual graduates in 4 years} + \# \text{ actual graduates in 5 years}}{\# \text{ initial cohort} + \# \text{ on-time transfers in} - \# \text{ of students who transfer out of cohort}}
\]

The five-year adjusted cohort graduation rate used in the ESSA School Index is a different cohort of students than the cohort of students in the four-year adjusted cohort graduation rate used in the same ESSA School Index calculation.

For example, the 2017 ESSA School Index uses the 2016 four-year adjusted cohort graduation rate. Students in this four-year rate were first time Grade 9 students in the 2012-2013 school year. Students in the five-year rate were first time Grade 9 students in the 2011-2012 school year. They were expected to graduate in 2014-2015. However, they did not graduate on-time. These students would be counted as actual graduates in 5 years if they graduate in the 2015-2016 school year.

Actual Graduates = Number of cohort members who earned a regular high school diploma by the end of the expected four years plus number of cohort members who earned a regular high school diploma by the end of five years (one year beyond the expected graduation year).

For example, first time ninth graders in the 2011-2012 school year will be expected to graduate in the 2014-2015 school year. If a student who is a first time ninth grader in the 2011-2012 school year graduates in the 2014-2015 school year, and is included in the Cycle 9 graduates table submitted by the school district, the student will be counted in the number of actual graduates for the 2014-2015 adjusted cohort graduation rate. These students will also be counted in the 2015-2016 five-year adjusted cohort graduation rate. In addition, students who did not graduate in the expected four years and instead graduated in five years, will be included in the five-year adjusted cohort graduation rate for 2015-2016.

Initial Cohort = Number of first-time grade 9 students in fall of cohort starting year (starting cohort). If a school is a Grades 10-12 or 11-12 high school, the Initial Cohort is first time Grade 10 and first time Grade 11 students, respectively.

For the five-year adjusted cohort graduation rate, the same procedures are applied using certified data from Cycles 2-7 for the four years of the cohort as described in the adjustments below.

**NOTE:** for the five-year adjusted cohort rate, students who failed to graduate in their expected four years are treated as expected to be in grade 12 in their fifth year for the purposes of adjusting the five-year cohort.
Adjustments = Initial cohort is adjusted by the number of students who transfer in during the first four school years (first three years for Grades 10-12 and first two years for Grades 11-12 schools) of the cohort and the number of students who transfer out, emigrate to another country, transfer to a prison or juvenile facility, or die during the four school years for the cohort.

Certified data from Cycles 2 – 7 are used to adjust the cohort for transfers in and transfers out. Students’ School LEAs in the adjusted cohort is the School LEA where the students were last considered on-time based on grade level and expected progression from entry in the cohort.

- First time Grade 9 students are expected to be in grades 10, 11, and 12 in the three successive years of their cohort. For Grades 10-12 schools, first time Grade 10 students are expected to progress to grades 11 and 12 in the successive two years. For Grades 11-12 schools, first time Grade 11 students are expected to progress to grade 12 in their second year in the cohort. If the student fails to graduate in four years and is enrolled in, or transfers into, a school in the fifth year for their cohort the student is counted in the five-year adjusted cohort of students expected to graduate in five years.

- Grade level of the student in each cycle is used to determine if a student transfers in ‘on-time’. A student can fall behind and catch up within the same year or across multiple years.

- If a student transfers into a school and appears to have repeated a grade, based on grade level in initial cohort and expected grade level at transfer in, then the student is no longer on-time and is not added to the school’s cohort to which the student transfers. Instead, the student is retained in the school cohort in which the student was last on-time as indicated by whether the grade level of the student meets or exceeds the expected grade-level.

- If a student repeats a grade or falls behind within the same school year and later catches up, and that student transfers into another school at the grade level expected based on the student’s entry into the new school, then the student is removed from the former cohort and added to the transfer school’s cohort as an on-time transfer. For students who fail to graduate in four years, the student is treated as expected to be in Grade 12 in their fifth year. Therefore, if a student transfers into a school in their fifth year as a Grade 12 student the student is added to the school’s five-year adjusted cohort. If the student graduates at the end of that year, the student is added as a five-year actual graduate.

- Early graduates should be properly coded as early graduates and counted in the cohort that is the students’ first on-time grade 9 (schools with Grades 9-12), first on-time grade 10 (schools with Grades 10-12), or first on-time grade 11 (schools with Grades 11-12). Early graduates are not counted in the year they graduate as they are not part of that particular adjusted cohort.

- Note: for Grades 10-12 schools, the cohort is determined by first time tenth graders. If a student repeated ninth grade and enrolls in a Grade 10-12 school as a first time tenth grader, the student becomes part of the Grades 10-12 school’s cohort. The same is true for students in Grades 11-12 schools. The student is considered an on-time student in the school’s cohort if they are first time eleventh grader, regardless of whether the student repeated grade 9 and/or grade 10.

- Actual Graduates are those students listed as graduated in the certified Cycle 9 Graduates table for the four-year adjusted cohort plus students who graduate one year after their expected graduation year for their cohort. The TRIAND transcript system is not used to pull graduation status of students in the initial calculation of the adjusted cohort graduation rate. Only certified Cycle 9 data are used.

### Determining a three-year 5-year cohort graduation rate

\[
3\text{Yr. Weighted Ave. ACGR for 2016} = \frac{\# \text{ in 2014 Cohort (ACGR14)} + \# \text{ in 2015 Cohort (ACGR15)} + \# \text{ in 2016 Cohort (ACGR16)}}{\# \text{ in 2014 Cohort} + \# \text{ in 2015 Cohort} + \# \text{ in 2016 Cohort}}
\]
Graduation- 5 year Adjusted Cohort

for schools who did not have at least 15 expected graduates by 2016

EXAMPLE

\[
3Yr.\text{Weighted Average of the five – year ACGR for 2016} = \frac{1008 + 1023 + 1200}{35}
\]

\[
3Yr.\text{Weighted Average of the five – year ACGR for 2016} = \frac{3231}{35}
\]

\[
3Yr.\text{Weighted Average for the five – year ACGR for 2016} = 92.31
\]

Variables in Final Five-Year Graduation Table

- District LEA
- District Name
- School LEA
- School Name
- Subgroup
- N Actual Graduates 2016 (5 yr)
- N Expected Graduates 2016 (5 yr)
- Graduation Rate 2016 (5 yr)
- N Actual Graduates 2015 (5 yr)
- N Expected Graduates 2015 (5 yr)
- Graduation Rate 2015 (5 yr)
- N Actual Graduates 2014 (5 yr)
- N Expected Graduates 2014 (5 yr)
- Graduation Rate 2014 (5 yr)
- 3 Yr N Actual Graduates (5 yr)
- 3 Yr N Expected Graduates (5 yr)
- 3 Yr Graduation Rate (5 yr)

School Quality and Student Success Indicator

The School Quality and Student Success (SQSS) Indicator is composed of a number of different components. The components are calculated as the percentage of points earned out of points possible per student. This provides comparability among schools statewide. Points per student are earned by schools for each component that applies to the grades served by the school. The points earned and points possible are summed across all indicators and the percentage of points earned is calculated for SQSS for the school. The following sections describe the calculation for each component of SQSS.

Student Engagement Component

Using student-level attendance and student absenteeism risk level as proxy for student engagement.

Included Subgroups

1. All Students – All students in the school.
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.
### Student Engagement Component

| Included Students | Grades K - 11 students enrolled at each school—certified in cycle 7 of the statewide information system data collection schedule (June 15) each school year. This is the denominator of the student engagement component and is comparable for schools across the state. |
| Excluded Students | Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND. |

#### Student Level Chronic Absence Calculations

1. Calculate attendance rate for each student at each school, which is \( \frac{\text{total present days}}{\text{total present days} + \text{total absent days}} \).
2. Determine risk level for chronic absence for each student at each school.
   a. Students absent 0-less than 5% of days enrolled considered low risk and assigned 1 point.
   b. Students absent 5% to less than 10% of days enrolled considered moderate risk and assigned 0.5 points.
   c. Students absent 10% or more of days enrolled considered high risk for chronic absence and assigned 0 points.

#### Calculate percent of points earned per student for risk level related to Chronic Absence

1. Determine the school-level points earned per student for student engagement.
   a. School-level points earned for student engagement = \( \frac{\sum \text{Points Earned Per Student Enrolled}}{\text{Number of Students Enrolled}} \)

#### Variables related to Chronic Absence

- Number of Students Enrolled in School (Cycle 7 Certified Submission)
- Days Absent and Days Present for Enrolled Students
- Student Absence Risk Level: Low, Moderate, High
- Number of Points Possible for Student Engagement (Number of student enrolled)
- Number of Points Earned Per Student for Engagement (sum of points for risk level of students)

### Reading Achievement Component

#### Description of Component or Indicator

Using student-attained achievement level on ACT Aspire Reading as a proxy for describing students as Reading at Grade Level.

#### Included Subgroups

1. All Students – All students in the school.
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.
### Reading Achievement Component

<table>
<thead>
<tr>
<th>Included Students</th>
<th>Grades 3 - 10 full academic year students enrolled at each school and completing state required assessment in reading (ACT Aspire). This is the denominator of the reading achievement component and is comparable for schools across the state.</th>
</tr>
</thead>
</table>
| Excluded Students | 1. Highly mobile students are excluded from the school calculations.  
2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND. |
| Reading at Grade Level Determination | Students are considered to be reading at grade level if the student attains an achievement level of Ready or Exceeds on the ACT Aspire.  
a. If student scores at Ready or Exceeds achievement level on ACT Aspire Reading then the student receives 1 point.  
b. If the student scores at In Need of Support or Close achievement level on ACT Aspire Reading then student receives 0 points. |
| Determining Mean School Percent Reading at Grade Level | Determine the school-level points earned per student for reading at grade level.  
- School-level points earned for Reading at Grade Level = Sum of points earned per student at Ready/Exceeds / number of students tested Reading  
  \[
  \text{Reading at Grade Level Points} = \frac{\sum \text{Points Earned Per Student Tested Reading}}{\text{Number of Students Tested Reading}}
  \]  
- Variables related to Reading at Grade Level  
  - Students Tested in Reading on required statewide ACT Aspire  
  - Student full academic year status (mobility)  
  - Number of Points Possible for Reading at Grade Level (number of students tested in reading)  
  - Number of Points Earned Per Student for Reading at Grade Level (sum of points for students scoring at Ready or Exceeds achievement levels) |

### Science Achievement Component

<table>
<thead>
<tr>
<th>Description of Component or Indicator</th>
<th>Using student-attained achievement level in Science as a proxy for describing students as Science Ready.</th>
</tr>
</thead>
</table>
| Included Subgroups | 1. All Students – All students in the school.  
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.  
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.  
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.  
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.  
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services). |
## Science Achievement Component

### Assessments & Grade Levels Included
- Grade 3 – 10 full academic year students enrolled at each school and completing state required assessment in science (ACT Aspire).
- Arkansas Alternative Portfolio Assessment for Science (AAPA Science), Grades: 5, 7, 10, and flagged for alternate science portfolio

### Included Subject
Science

### Included Students
Grades 3 - 10 full academic year students enrolled at each school and completing state required assessment in Science (ACT Aspire or AAPA). This is the denominator of the Science achievement points and is comparable for schools across the state.

### Excluded Students
1. Highly mobile students are excluded from the school calculation.
2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND.

### Science Readiness Determination
Students are considered to be at Readiness level if the student scores at an achievement level of Ready or Exceeds on ACT Aspire.

a. If student scores at Ready or Exceeds achievement level on ACT Aspire Science then the student receives 1 point. If the student scores at the Independent or Functional Independence Level on the AAPA the student receives 1 point.

b. If the student scores at In Need of Support or Close achievement level on ACT Aspire, or the student scores at the Supported Independence, Emerging Independence, or Not Emerging on the AAPA in Science, then student receives 0 points.

### Determining Mean School Percent Science Ready
- **School-level points earned for Science Readiness** = Sum of points earned per student for Science Readiness / number of students tested in science

\[
\text{Science Readiness Points} = \frac{\sum \text{Points Earned Per Student Tested Science}}{\text{Number of Students Tested Science}}
\]

### Variables related to Science Readiness
- Students Tested in Science on required statewide ACT Aspire
- Student full academic year status (mobility)
- Number of Points Possible for Science Readiness (number of students tested in Science)
- Number of Points Earned Per Student for Science Readiness (sum of points for students scoring at Ready or Exceeds achievement levels)

## Science Value-Added Growth Component

### Description of Component or Indicator
Science Value-Added Growth is calculated at the student level using the same growth model procedures described for ELA and math. Once students’ science value-added scores are obtained, students’ scores are ordered within grade level from lowest to highest science value-added score. Each score is assigned a rank of 1 to 99 within grade level. This is called the percentile rank of the residual. The residual is the value-added score for the student.

### Included Subgroups
1. All Students – All students in the school.
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
### Science Value-Added Growth Component

6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. Student with Disability(ies) – Student is indicated as receiving special education services.

**Included Students**

- Grades 4 - 10 full academic year students enrolled at each school and completing state required assessment in Science (ACT Aspire). This is the denominator of the Science Value-added growth points and is comparable for schools across the state.

**Excluded Students**

1. Highly mobile students are excluded from the school calculation.
2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND.

**Science Growth - Student Level**

1. Value-added Growth scores for science achievement are classified into three levels for assigning points.
2. The percentile rank of the science value-added growth score is obtained for each student within each grade level.
   
   a. If a student’s value-added growth score is at or above the 75th percentile for his/her grade level then the student receives 1 point.
   
   b. If a student’s valued-added growth score is at or above the 25th percentile rank and below the 75th for his/her grade level then the student receives 0.5 points.
   
   c. If the student’s value-added growth score is below the 25th percentile rank for his/her grade level then the student receives 0 points.

**Science Value-Added Growth - School Level**

Determine the school-level points earned per student for Science Value-Added Growth.

- School-level points earned for Science Value-Added Growth = Sum of points earned per student for Science Growth / number of students w growth scores

\[
\text{Science Value – Added Grow Points} = \frac{\sum \text{Points Earned Per Student w Science Growth}}{\text{Number of Students with Science Growth}}
\]

**Variables related to Science Growth**

- Students Tested in Science on required statewide ACT Aspire
- Student full academic year status (mobility)
- Number of Points Possible for Science Growth (number of students with science growth scores)
- Number of Points Earned Per Student for Science Growth (sum of points for students’ value-added science growth scores)

### On-time Credits Component

**Description of Component or Indicator**

Using On-Time Credits for grades 9 – 11 for secondary success component

**Included Subgroups**

1. All Students – All students in the school.
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. Student with Disability(ies) – Student is indicated as receiving special education services.
**On-time Credits Component**

| Included Students | Grades 9 - 11 students enrolled at each school--certified in cycle 7 of the statewide information system data collection schedule (June 15) each school year. This is the denominator of the on-time credits component and is comparable for schools across the state. |
| Excluded Students | 1. Highly mobile students are excluded from the school calculation.  
2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND. |
| On-Time Credits Calculations-Student Level | 1. Calculate number of credits earned by each student at each of grades 9, 10, and 11 for any school with any of these grade levels.  
2. Determine points based on on-time credits for grade level.  
   a. If grade 9 student completes 5.5 or more credits by end of grade 9 student receives 1 point. Otherwise, the student receives 0 points.  
   b. If grade 10 student completes 11 or more credits by end of grade 10 student receives 1 point. Otherwise, the student receives 0 points.  
   c. If grade 11 student completes 16.5 or more credits by end of grade 11 student receives 1 point. Otherwise, the student receives 0 points. |
| On-Time Credits - School Level | Determine the school-level points earned per student for on-time credits. For schools with any of grades 9, 10, and/or 11:  
   a. School-level points earned for on-time credits= Sum of points earned per student for on-time credits/ number of students enrolled in qualifying grade levels  
   
\[
\text{School Engagement Points} = \frac{\sum \text{Points Earned for On-Time Credits Per Student Enrolled}}{\text{Number of Students Enrolled}}
\]  
| Variables related to On-Time Credits | • Number of Students Enrolled in School (Cycle 7 Certified Submission)  
• Student Course Completion (Cycle 7 Certified Submission)  
• Grade Level  
• Student Full Academic Year status  
• Number of Points Possible for On-Time Credits (Number of student enrolled in grades 9, 10, and/or 11 at school)  
• Number of Points Earned Per Student On-Time Credits (sum of points for students enrolled in grades 9, 10, and/or 11 at school) |

**High School GPA Component**

| Description of Component or Indicator | Using high school final GPA on 4.0 scale as high school success and postsecondary readiness indicator. |
| Included Subgroups | 1. All Students – All students in the school.  
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.  
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.  
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.  
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.  
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).  
7. Student with Disability(ies) – Student is indicated as receiving special education services. |
### High School GPA Component

| Included Students | Grade 12 students enrolled at each school—certified in cycle 7 of the statewide information system data collection schedule (June 15) each school year. This is the denominator of the High School GPA component and is comparable for schools across the state. |
| Excluded Students | 1. Highly mobile students are excluded from the school calculation.  
2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND. |
| High School GPA Calculations—Student Level | 1. Final High School GPAs are submitted to the statewide information system in Cycle 7 certified submission. These final high school GPAs are used for this component.  
2. Determine points for high school GPA.  
   a. Students with a high school GPA greater than or equal to 2.8 receive 1 point.  
   b. Students with a high school GPA less than 2.8 receive 0 points. |
| High School GPA—School Level | Determine the school-level points earned per student for high school GPA.  
- School-level points earned for high school GPA = Sum of points earned per student / number of Grade 12 students enrolled:  
  \[ \text{High School GPA Points} = \frac{\sum \text{Points Earned Per Grade 12 Student Enrolled}}{\text{Number of Grade 12 Students Enrolled}} \] |
| Variables related to High School GPA | 1. Number of Grade 12 Students Enrolled in School (Cycle 7 Certified Submission)  
2. Final High School GPA submitted for Grade 12 students in Cycle 7 Certified Submission  
3. Full Academic Year Status  
4. Number of Points Possible for High School GPA (Number of Grade 12 students enrolled)  
5. Number of Points Earned for High School GPA (sum of points Grade 12 students) |

### ACT Scores Component

| Description of Component or Indicator | Using ACT Composite and Subject Scores for postsecondary readiness indicator. |
| Included Subgroups | 1. All Students – All students in the school.  
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.  
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.  
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.  
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.  
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).  
7. Student with Disability(ies) – Student is indicated as receiving special education services. |
| Included Students | Grade 12 students who are enrolled at each school—certified in cycle 7 of the statewide information system data collection schedule (June 15) each school year. This is the denominator of the ACT component and is comparable for schools across the state. |
| Excluded Students | 1. Highly mobile students are excluded from the school calculation.  
2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND. |
| ACT Composite—Student Level | 1. Grade 12 students enrolled at each school are submitted to the statewide information system in Cycle 7 certified submission. The students in Grade 12 are used for this component. |
**ACT Scores Component**

2. Determine students’ highest ACT Composite score. Look back at all ACT scores received in prior 3 years to obtain highest ACT Composite score.

3. Determine points for ACT Composite.
   a. Students with an ACT Composite greater than or equal to 19 receive 1 point.
   b. Students with an ACT Composite less than 19 receive 0 points.

<table>
<thead>
<tr>
<th>ACT Composite - School Level</th>
<th>Determine the school-level points earned per Grade 12 students for ACT Composite.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• School-level points earned for ACT Composite = Sum of points earned per student / number of Grade 12 students enrolled:</td>
</tr>
</tbody>
</table>
|                             | \[
|                             | ACT Composite Points = \frac{\sum \text{Points Earned Per Grade 12 Student Enrolled}}{\text{Number of Grade 12 Students Enrolled}} \]

**Variables related to ACT Composite**

- Number of Grade 12 Students Enrolled in School (Cycle 7 Certified Submission)
- ACT Scores for 3 years from national and state administrations
- Full Academic Year Status
- Number of Points Possible for ACT Composite(Number of Grade 12 students enrolled)
- Number of Points Earned for ACT Composite (sum of points Grade 12 students with ACTs)

---

**ACT Readiness Benchmark Component**

- **Description of Component or Indicator**: Using ACT Readiness Benchmark Scores for postsecondary readiness indicator.

<table>
<thead>
<tr>
<th>Included Subgroups</th>
<th>Using ACT Readiness Benchmark Scores for postsecondary readiness indicator.</th>
</tr>
</thead>
</table>

1. **All Students** – All students in the school.
2. **White** – Student’s race is identified as White and no other race or ethnicity is indicated.
3. **African American** – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. **Hispanic/Latino(a)** – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. **Economically Disadvantaged** – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
6. **English Learner** – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. **Student with Disability(ies)** – Student is indicated as receiving special education services.

<table>
<thead>
<tr>
<th>Included Students</th>
<th>Grade 12 students who are enrolled at each school—certified in cycle 7 of the statewide information system data collection schedule (June 15) each school year. This is the denominator of the ACT component and is comparable for schools across the state.</th>
</tr>
</thead>
</table>

| Excluded Students | Highly mobile students are excluded from the school calculation. |
|-------------------| Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND. |

<table>
<thead>
<tr>
<th>ACT Readiness Benchmarks-Student Level</th>
<th>Using ACT Readiness Benchmark Scores for postsecondary readiness indicator.</th>
</tr>
</thead>
</table>

1. **Grade 12 students enrolled at each school are submitted to the statewide information system in Cycle 7 certified submission. The students in Grade 12 are used for this component.**
2. **Determine students’ highest ACT Reading, Math, and Science score. Look back at all ACT scores received in prior 3 years to obtain highest ACT scores earned for any Grade 12 students.**
3. **Determine points for ACT Readiness Benchmark.**
   a. Students with an ACT Math score greater than or equal to 22 receives 0.5 points.
### ACT Readiness Benchmark Component

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>b.</strong> Students with an ACT Reading score greater than or equal to 22 receive 0.5 points.</td>
<td></td>
</tr>
<tr>
<td><strong>c.</strong> Students with an ACT Science score greater than or equal to 23 receive 0.5 points.</td>
<td></td>
</tr>
</tbody>
</table>

**ACT Readiness Benchmarks - School Level**

Determine the school-level points earned per Grade 12 students for ACT Composite.

- **School-level points earned for ACT Composite** = Sum of points earned per student:

  \[
  \text{ACT Readiness Benchmark Points} = \sum \frac{\text{Points Earned Per Grade 12 Student Enrolled}}{\text{Number of Grade 12 Students Enrolled}}
  \]

**Variables related to ACT Readiness Benchmarks**

- Number of Grade 12 Students Enrolled in School (Cycle 7 Certified Submission)
- ACT Scores for 3 years from national and state administrations
- Full Academic Year Status
- Number of Points Possible for ACT Readiness Benchmarks (Number of Grade 12 students enrolled)
- Number of Points Earned for ACT Readiness Benchmarks (sum of points Grade 12 students with ACTs)

### AP/IB/Concurrent Credit Component

**Description of Component or Indicator**

Using credit-earning in Advanced Placement, International Baccalaureate, and Concurrent Credit courses as access and postsecondary readiness indicator.

**Included Subgroups**

1. All Students – All students in the school.
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino(a). A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. Student with Disability(ies) – Student is indicated as receiving special education services.

**Included Students**

Grade 12 students who are enrolled at each school—certified in cycle 7 of the statewide information system data collection schedule (June 15) each school year. This is the denominator of the AP/IB/Concurrent Credit component and is comparable for schools across the state. Concurrent Credit includes Arkansas Career Education (ACE) concurrent credit courses.

**Excluded Students**

1. Highly mobile students are excluded from the school calculation.
2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND.

**AP/IB/Concurrent Credit - Student Level**

1. Grade 12 students enrolled at each school are submitted to the statewide information system in Cycle 7 certified submission. The students in Grade 12 are used for this component.
2. Course completion and credit data from cycle 7 certified submission for each of four years of high school for the current grade 12 class.
3. Determine points for AP/IB/Concurrent Credit.
### AP/IB/Concurrent Credit Component

| AP/IB/Concurrent Credit -School Level | Determine the school-level points earned per Grade 12 students for AP/IB/Concurrent Credit.  
| | • School-level points earned for AP/IB/Concurrent Credit = Sum of points earned per student  
| | \[
| \text{AP/IB/Concurrent Credit Points} = \frac{\sum \text{Points Earned Per Grade 12 Student Enrolled}}{\text{Number of Grade 12 Students Enrolled}}
| \]

<table>
<thead>
<tr>
<th>Variables related to AP/IB/Concurrent Credit</th>
</tr>
</thead>
</table>
| • Number of Grade 12 Students Enrolled in School (Cycle 7 Certified Submission)  
| • Course Credits Earned for each high school year for Grade 12 class  
| • Number of Points Possible for AP/IB/Concurrent Credit (Number of Grade 12 students enrolled)  
| • Number of Points Earned for AP/IB/Concurrent Credit (sum of points Grade 12 students) |

### Computer Science Component

| Description of Component or Indicator | Using credit-earning in computer science as access and postsecondary readiness indicator.  
| | Course codes for computer science changed between 2016-17 and 2017-18.  
| | For the 2016-2017 SQSS, the course codes used are listed in Appendix B-Computer Science Course Codes.  
| | Course codes that will be used for the 2017-18 computer science courses are available at [https://docs.google.com/document/d/1j9WF2g_gLkwwHjQletJ3nRHRQhCqOUJ-YkPuRJVNGvl/edit#](https://docs.google.com/document/d/1j9WF2g_gLkwwHjQletJ3nRHRQhCqOUJ-YkPuRJVNGvl/edit#) |

| Included Subgroups |  
| 1. All Students – All students in the school.  
| 2. White – Student’s race is identified as White and no other race or ethnicity is indicated.  
| 3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.  
| 4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino/a. A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.  
| 5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.  
| 6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).  
| 7. Student with Disability(ies) – Student is indicated as receiving special education services. |

| Included Students | Grade 12 students who are enrolled at each school—certified in cycle 7 of the statewide information system data collection schedule (June 15) each school year. This is the denominator of the computer science component and is comparable for schools across the state. |

| Excluded Students | 1. Highly mobile students are excluded from the school calculation.  
| 2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND. |

| Computer Science-Student Level | 1. Grade 12 students enrolled at each school are submitted to the statewide information system in Cycle 7 certified submission. The students in Grade 12 are used for this component.  
| 2. Course completion and credit data from cycle 7 certified submission for each of four years of high school for the current grade 12 class.  
| 3. Determine points for computer science. |
### Computer Science Component

<table>
<thead>
<tr>
<th></th>
<th>c. Students with one or more computer science course credits earn 1.0 point. Otherwise students earn 0 points.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Science -School Level</strong></td>
<td>Determine the school-level points earned per Grade 12 students for computer science.</td>
</tr>
<tr>
<td></td>
<td>• School-level points earned for computer science = Sum of points earned per student</td>
</tr>
</tbody>
</table>
| | \[
| Computer Science Points = \frac{\sum Points Earned Per Grade 12 Student Enrolled}{Number of Grade 12 Students Enrolled} \]

<table>
<thead>
<tr>
<th><strong>Variables related to Computer Science</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Number of Grade 12 Students Enrolled in School (Cycle 7 Certified Submission)</td>
</tr>
<tr>
<td></td>
<td>• Course Credits Earned for each high school year for Grade 12 class</td>
</tr>
<tr>
<td></td>
<td>• Number of Points Possible for Computer Science (Number of Grade 12 students enrolled)</td>
</tr>
<tr>
<td></td>
<td>• Number of Points Earned for Computer Science (sum of points Grade 12 students)</td>
</tr>
</tbody>
</table>

### Community Service/Service Learning Component

<table>
<thead>
<tr>
<th>Description of Component or Indicator</th>
<th>Using credit-earning in community service/service learning as access and postsecondary readiness indicator.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Included Subgroups</strong></td>
<td>1. All Students – All students in the school.</td>
</tr>
<tr>
<td></td>
<td>2. White – Student’s race is identified as White and no other race or ethnicity is indicated.</td>
</tr>
<tr>
<td></td>
<td>3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.</td>
</tr>
<tr>
<td></td>
<td>4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino(a). A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.</td>
</tr>
<tr>
<td></td>
<td>5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.</td>
</tr>
<tr>
<td></td>
<td>6. English Learner – Student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).</td>
</tr>
<tr>
<td></td>
<td>7. Student with Disability(ies) – Student is indicated as receiving special education services.</td>
</tr>
</tbody>
</table>

| **Included Students** | Grade 12 students who are enrolled at each school—certified in cycle 7 of the statewide information system data collection schedule (June 15) each school year. This is the denominator of the Community Service component and is comparable for schools across the state. |

| **Excluded Students** | 1. Highly mobile students are excluded from the school calculation. |
| | 2. Beginning in 2018, exclude home schooled students (Resident Code = 1, 2, 4) if student state ID and LEA are accurate for match to enrollment data downloaded from TRIAND. |

| **Community Service -Student Level** | 1. Grade 12 students enrolled at each school are submitted to the statewide information system in Cycle 7 certified submission. The students in Grade 12 are used for this component. |
| | 2. Course completion and credit data from cycle 7 certified submission for each of four years of high school for the current grade 12 class. Community or Service Learning Course Codes 999120 and 496010 are used. |
| | 3. Determine points for Community Service. |
| | a. Students with one or more Community Service course credits earn 1.0 point. Otherwise students earn 0 points. |

| **Community Service -School Level** | Determine the school-level points earned per Grade 12 students for computer science. |
| | • School-level points earned for Community Service = Sum of points earned per student |
| | \[
| Community Service Points = \frac{\sum Points Earned Per Grade 12 Student Enrolled}{Number of Grade 12 Students Enrolled} \]
### Community Service/Service Learning Component

<table>
<thead>
<tr>
<th>Variables related to Community Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Number of Grade 12 Students Enrolled in School (Cycle 7 Certified Submission)</td>
</tr>
<tr>
<td>• Course Credits Earned for each high school year for Grade 12 class</td>
</tr>
<tr>
<td>• Number of Points Possible for Community Service (Number of Grade 12 students enrolled)</td>
</tr>
<tr>
<td>• Number of Points Earned for Community Service (sum of points Grade 12 students)</td>
</tr>
</tbody>
</table>

### Compiling Total SQSS Score

The SQSS Score is compiled by summing points earned across all components in the numerator and points possible in the denominator.

### Groups Calculated

1. All Students – All students in the school.
2. White – Student’s race is identified as White and no other race or ethnicity is indicated.
3. African American – Student’s race is identified as African American and no other race or ethnicity is indicated.
4. Hispanic/Latino(a) – Student’s ethnicity is identified as Hispanic/Latino(a). A student is designated as Hispanic/Latino(a) regardless of whether any other races are identified for the student.
5. Economically Disadvantaged – Student is indicated as participating in the Federal Free and Reduced Price Lunch Program.
6. English Learner – Student is indicated as an English Learner (EL) or student is indicated as a Former Monitored (EL) (for up to four years after exiting EL services).
7. Student with Disability(ies) – Student is indicated as receiving special education services.

### Calculation

1. Calculate possible points (ppt) and earned points (ept) for each component of each student. Students may have different components due to different grade levels so the points possible provides a way to make the denominator comparable statewide within grade spans.
2. Calculate SQSS points for each student: the total possible points of SQSS is the summation of the possible points of all components, and the total earned points of SQSS is the summation of the earned points of all components.
3. Calculate SQSS points at the school level: the total possible points of the school is the summation of the possible points of its students, and the total earned points of the school is the summation of the earned points of its students.
4. Calculate percentage SQSS score at the school level: the percentage score equals to (total earned points / total possible points)*100.

### Special Schools: Feeder Schools and Special Grade Configurations

**Feeder Schools**

Schools with grade configurations that do not include a tested grade must be included in the accountability system. Most commonly these schools are primary schools that feed into an elementary or intermediate school. To include these schools in the accountability system these feeder schools are paired with an elementary school or schools that receive the students from the feeder school.

In the case of feeder schools, the achievement and growth of the paired school are used to provide an achievement and growth score for the feeder school. The achievement and growth score from the paired school are combined with the School Quality and Student Success Score for the feeder school. Since the feeder school does not have a tested grade, the School Quality and Student Success Score includes only one component—the Student Engagement component.
**Special Grade Configurations**

Schools in the high school grade span include schools with several different combinations of grade levels with as many or more assessed grades at Grades 9 and/or 10, or with a terminal grade level of Grade 12. Within this grade span are two special configurations:

- Junior high schools with Grades 8 and 9 only, or Grade 9 only; and,
- schools with Grades 11 and 12 only.

These schools require special calculations to ensure they are included in the accountability system in the grade span that is best suited for comparison purposes.

For junior high schools with Grades 8 and 9 only, or Grade 9 only, the school does not have a four-year or five-year adjusted cohort graduation rate. Therefore, these schools ESSA School Index scores are calculated using the weights for Grade span 6 – 8 and the school is grouped with the high school grade span to ensure the school’s achievement and growth are in the grade span with other schools whose students take the ACT Aspire Early High School assessment (Grades 9 and 10).

Schools with configurations of Grades 11 and 12 only are paired with another high school within the district to include the weighted achievement and growth scores from the high school with tested grades (paired school). The weighted achievement and growth scores from the paired school are combined with the graduation rates and School Quality and Student Success Indicator scores to obtain a complete ESSA School Index score for the Grades 11-12 high school.
Appendix A

The four achievement levels for the ELA score are not provided on the ACT Aspire vendor-provided reports. The cut scores for the four achievement levels are provided in the table below to enable schools to determine the number of students at each of the four achievement levels in ELA.

ELA Cut Scores

<table>
<thead>
<tr>
<th>Grade</th>
<th>ELA Close Cut Score</th>
<th>ELA Ready Cut Score</th>
<th>ELA Exceeds Cut Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>416</td>
<td>419</td>
<td>422</td>
</tr>
<tr>
<td>4</td>
<td>418</td>
<td>421</td>
<td>424</td>
</tr>
<tr>
<td>5</td>
<td>418</td>
<td>422</td>
<td>426</td>
</tr>
<tr>
<td>6</td>
<td>419</td>
<td>423</td>
<td>427</td>
</tr>
<tr>
<td>7</td>
<td>420</td>
<td>424</td>
<td>428</td>
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<tr>
<td>8</td>
<td>421</td>
<td>425</td>
<td>429</td>
</tr>
<tr>
<td>9</td>
<td>422</td>
<td>426</td>
<td>430</td>
</tr>
<tr>
<td>10</td>
<td>424</td>
<td>428</td>
<td>432</td>
</tr>
</tbody>
</table>
Appendix B

Courses are extracted based on the first 5 digits of the course code. This is due to the use of the 6th digit for local purposes. The list below shows a 0 in the 6th digit rather than all the different possibilities based on districts’ local coding.

Please Note: As long as the first five digits of the course code match the codes listed below a student’s course record will be in the extract.

Advanced Placement/International Baccalaureate/Concurrent Credit Course Codes

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>517030</td>
<td>AP English Language and Composition</td>
</tr>
<tr>
<td>517040</td>
<td>AP English Literature and Composition</td>
</tr>
<tr>
<td>517060</td>
<td>AP Seminar</td>
</tr>
<tr>
<td>517070</td>
<td>AP Research</td>
</tr>
<tr>
<td>520030</td>
<td>AP Biology</td>
</tr>
<tr>
<td>521030</td>
<td>AP Chemistry</td>
</tr>
<tr>
<td>522030</td>
<td>AP Physics B</td>
</tr>
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**Computer Science Course Codes**

**2017 Courses Used**

Note the course codes for the 2017-18 school year will be different from the course codes used in the 2015-16 and 2016-17 calculations. The course code list for 2017-18 computer science will reflect the updated codes for the 2017=18 school year as indicated in the Course Code Management System.

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