



Arizona State Board of Education
Technical Advisory Committee

NOTICE OF PUBLIC MEETING

Pursuant to Arizona Revised Statutes (A.R.S.) § 38-431.02, notice is hereby given to members of the State Board of Education Technical Advisory Committee (the "Committee"), and to the general public, that the Committee will hold a meeting open to the public on **Thursday, November 30, 2017, at 3:00 PM, at the Arizona Department of Education, Room 122, 1535 W. Jefferson, Phoenix, Arizona 85007**. A copy of the agenda is attached. The Committee reserves the right to change the order of items on the agenda, with the exception of public hearings. One or more Committee members may participate telephonically.

Pursuant to A.R.S. § 38-431.02(H), the Committee may discuss and take action concerning any matter listed on the agenda.

Pursuant to A.R.S. § 38-431.03(A)(3), the Committee may vote to convene in executive session, which will not be open to the public, for legal advice concerning any item on the agenda.

Persons with a disability may request a reasonable accommodation such as a sign language interpreter, by contacting the State Board Office at (602) 542-5057. Requests should be made as early as possible to allow time to arrange the accommodation.

DATED AND POSTED this 28th day of November, 2017.

By: _____

A handwritten signature in blue ink, appearing to read "Alicia Williams", written over a horizontal line.

Alicia Williams
Executive Director
(602) 542-5057

AGENDA

TECHNICAL ADVISORY COMMITTEE
Thursday, November 30, 2017
3:00 PM
Arizona Department of Education, Room 122
1535 W. Jefferson
Phoenix, AZ 85007

3:00 PM CALL TO ORDER AND ROLL CALL

1. CALL TO THE PUBLIC: This is the time for the public to comment. Members of the Committee may not discuss items that are not specifically identified on the agenda. Therefore, pursuant to A.R.S. 38-431.01(H), action taken as a result of public comment will be limited to directing staff to study the matter, responding to any criticism or scheduling the matter for further consideration and decision at a later date.
2. Presentation and discussion regarding student number count (n-count) issues within the A-F accountability plan and business rules
3. Presentation, discussion and possible action on the final report to go to the State Board of Education on the issues within the A-F accountability plan and business rules including:
 - a. N-Count Issues
 - b. Growth Issues
 - c. Proficiency Issues
 - d. English Language Learners (ELL) Issues
 - e. Acceleration Issues within the K-8 model
 - f. Issues relating to the Free and Reduced Lunch (FRL) correlations
4. FUTURE MEETING DATES AND ITEMS FOR FUTURE AGENDAS. The Executive Director or a member of the Committee may discuss future meeting dates and direct staff to place matters on a future agenda.

Adjourn

**Student Number Count (N-count) Issues
within the A-F Accountability Plan and Business Rules**

Methodological, Statistical, and Technical Concerns/Questions:

Several TAC members have expressed concern that:

1. There are methodological and statistical concerns about the stability of using N-counts less than 20.
2. That focusing on N-count detracts from bigger methodological concerns regarding calculation of Growth, conditional standard error of measurement, cut scores, and random error.

A lower N-count results in a wider margin of error. Even descriptive statistics such as mean and median become more uncertain.

Questions to answer through data:

1. How would lowering the N-count impact outcomes, say lowering the n-count to 10 or 15?

By lowering the N-count to 15, these were the results for schools that had student eligibility in various categories that were reported in the file with student counts.

This researcher could not in good conscience run data for an N-count lower than 15.

K-8

Total NR schools = 78

ProficiencyFAYsum	7
TotalNumberELFayStudents	0
FAY_SGP	10
FAY_SGT	10

9-12

Total NR schools = 69

ProficiencyFAYsum	10
TotalNumberELFayStudents	0
FAY_SGP	8
FAY_SGT	8
numcohort4	2

It was not possible to calculate if lowering the N-count to 15 would capture more students in the College and Career Readiness Category. ADE was advised that College and Career Readiness is all self-report and therefore did no validation of submissions. If the school met the N-count of 20, they should have submitted. If the school did not, then they should have selected NA.

2. *If the n-count was lowered, how many NR schools would now be included in the grading system?*

K-8

With a threshold of 80 points to earn a letter grade for 2016-17 (p. 25 of 2017 *A-F Letter Grade Accountability System: Traditional Schools Business Rules*), it is most likely that seven (7) K-8 schools currently receiving a NR rating would receive a letter grade.

9-12

The threshold for 9-12 schools is 50 points (p. 32 of 2017 *A-F Letter Grade Accountability System: Traditional Schools Business Rules*). It is possible that the ten (10) schools with students meeting the adjusted N-count of 15 for Proficiency would receive the additional 20% required to receive a letter grade. If so, 14% (10/69) would receive a letter grade. The State Board of Education would probably want to consider the policy question of whether they would be comfortable assigning a letter grade to a traditional school that did not have enough students with Proficiency scores to meet an N-count of 15.

3. *What would be the potential outcome in terms of grade label of schools if more students were captured?*

It might seem desirable to lower the student count threshold and capture more students. The seven (7) K-8 schools and possibly ten (10), 9-12 schools that would most likely receive a letter grade, rather than an NR, for 2016-17 might be pleased this year.

According to these simple calculations, seven (7) K-8 schools is only 9% (7/78). As mentioned, 9-12 predictions are not precise. We do not know how many more schools would report College and Career Readiness if N-count were lowered to 15 graduates. Using current data - If the ten (10) schools with enough FAY Proficiency students, also earn another 20% via SGP, SGT, or Graduation, 14% (10/69) might receive letter grades.

TAC members have expressed that lowering the N-count results in achievement profile framework calculations that are subject to instability of the system. It will be uncertain if year-to-year fluctuations in a school's letter grade are due to the work of the school or instability of the framework calculation(s).

Lowering the student number count might be a Band-Aid fix that increases the number of schools with letter grade labels for FY 2017 yet becomes a tourniquet in subsequent years.

4. *Could there be student privacy concerns with the N-count being lowered?*

Absolutely. If someone knows how to mine information from public records, privacy could be compromised.

Privacy might be more protected if the N-count were lowered to 15. Anything less than 15 exacerbates the issue.

One analysis

AZSDE Questions and Guyer Responses

Acceleration (K-8) R. Guyer, D. Jordan

What we know: n-count is too large for some schools to receive points in this section

Questions to answer through data and bring on Monday:

1. How many schools received the total amount of points that were available to them, even if the total points that they were eligible for was under ten?

Based on my review all schools were eligible to receive maximum points due to the Subgroup Improvement variable which accounted for 6 potential points. Of the 1374 schools that had valid grades and acceleration calculated, 872 (63.4%) received the maximum of 10 points. More information is required to determine whether a school qualified for the maximum points.

2. How many schools were eligible for full points (10) but did not receive full points because they did not meet the criteria? Is there a way to assess the validity of the criteria?

502 based on the data information

3. How many schools exceeded 10 total points but only received 10 points due to capping?

736 of the 872 schools (84.4%) exceeded the 10 point cap.

4. How would a different calculation or policy effect outcomes?

Small cell size exclusion errors

I identified a large number of cells with the value 0 in the current year (CY) to prior year (PY) comparisons. As 20 students are required for inclusion in the comparison, values of 0 must represent missing data. This makes it possible to automatically receive full points if the “zero” cell lands in the correct location of the comparison. (And alternately receive no points if it falls in the wrong side.) Providing valid percentages regardless of group size would remediate this problem – provided one of the two cells meets the minimum N of 20 rule.

Subgroup Improvement and cell sizes

The Subgroup Improvement variable divides students into seven groups based on race/ethnicity and three based on other conditions. The number of schools that had sufficient N to participate (out of 1372) are listed below:

Table 1. School Participation by Subgroup Improvement Category

Category	ELA	Math
White	1103	1103
African American	419	422
Hispanic	1252	1253
Asian	201	204
Native American / Alaskan Indian	187	188
Pacific Islander	2	2
Two or more races	213	215
English Learner	468	484
Special Education	1038	1043
Economically Disadvantaged	1188	1188

Schools have between 0 and 20 opportunities to earn the maximum allotment of six points. The more cells with N of at least 20, the more likely a school is to achieve maximum credit. For this reason, the Subgroup Improvement calculation favors schools with large enrollment (i.e., urban schools).

General methodological concerns:

All comparisons are all-or-nothing with no standard for acceptable improvement. Achieving an improvement of 0.01% is equivalent to 10% improvement. Likewise falling 0.01% short earns the school zero points. Point allocation based on “below”, “at-or-near”, and “above” target would reduce the arbitrariness of the measures.

Measuring Academic Growth as Part of an Accountability System

Dr. Thomas M. Haladyna
Professor Emeritus
Arizona State University
November 26, 2017

This is a working paper written as part of my work on the
Technical Advisory Committee to the Arizona Board of Education.

A major part of the accountability system in Arizona is student growth in reading, writing, and mathematics. As my contribution to this committee's work, I continue to ask questions and offer advice on issues affecting validity. The focus of this report is the validity of using growth measures in this high-stakes environment.

Technical Report and Documentation

As stated in an earlier paper (Haladyna, November 26, 2017), technical documentation is highly recommended for any high stakes testing program (AERA, 1999; AERA, APA, & NCME, 2014; Ferrera & Lai, 2016). AzMerit is used as a major part of the Arizona A-F Accountability System. Is there a technical report? Does it address questions and concerns stated in an earlier paper and this one? Have validity studies been done (Haladyna, 2006)? Documentation supplies validity evidence and an argument that using AzMerit test scores to measure growth in student achievement is fair and accurate in an accountability system. Without documentation, the state is subject to criticism and, even, legal challenges should some party feel that the accountability system has injured parents, students, and teachers.

What Do We Know About Academic Growth?

Without exception, all standardized achievement tests will show steady growth of students from grade three to grade eight. However, as we approach these higher grades there is an asymptotic tendency—that is, growth reaches a ceiling. Growth in grades 6, 7, and 8 may not be very much. How are teaching and school effects measured when variability is so greatly reduced in these grade levels? How can we make refined, accurate judgments when growth is so limited. A standard measure of differences is effect size (Cohen, 1988). What is the effect size of school effects at all grades? A box plot of growth by school for grades 3 to 8 would answer one question.

Growth in What Subject Matters

As state previously, Haladyna (November, 26, 2017), only reading, writing, and mathematics are used in a growth model. The most important question is why isn't the complete curriculum measured? If the accountability system only addresses growth in three subject matters, doesn't this invite school leaders and teachers to game the system and emphasize all three. We also know that the measurement of writing has validity issues and that teachers can game writing tests. Thus, schools and classes within schools can game the system by emphasizing these three subject matters and forgo instruction on those subject matters not measured in the accountability system.

Unit of Analysis

The unit of analysis is an important concept in an accountability system. One unit of analysis is the student. We measure academic progress from one year to the next. Another unit of analysis is the classroom. A third unit of analysis is the school. Sans a technical report or some other documentation, what is the unit of analysis?

If the student is the unit of analysis, growth scores may be very unstable. If the class is the unit of analysis, class composition varies from year to year. A cohort (class) seldom remains intact. Thus, bias is introduced by having new students come in and some students leaving. The class mean may be meaningless. A unit of analysis based on the entire school may be reliable if mobility is not a major factor. Random error (reliability) and systematic error (construct-irrelevant variance) are discussed in another section but it relevant to the issue of the unit of analysis.

Outliers

When looking at the indexes that comprise a total score for the accountability grade, outliers are very important concerns. These outliers may be a form of contamination. Each outliers should be investigated to see if there are tendencies associated with other factors in a school or teachers profile.

Personally, I have seen AIMS test growth data with negative gain scores in one published study (Mahoney, McSwan, Haladyna, & Garcia, 2010). These students were English language learners. This is very troubling because it suggests that either the data is contaminated or that these ELL students did not participate with the same motivation that is expected. I have also seen item responses by students with omits and not-reached blanks in AIMS test data at grades 3 to 8, These blanks are scored incorrect. Thus, their scores are lower. Test wise students know to fill in the blanks even if they have to guess. Some school leaders emphasize this and others don't. This is called test preparation. In other for this not to threaten validity, all students should have the same test preparation otherwise those receiving it will have artificially higher scores.

A good example of outliers in data is shown in a paper by Betebrenner and Linn (2000, p. 6). Growth is plotted against prior achievement with many, unexplained outliers. Before any action is taken where grades are assigned, outliers should be investigated to determine what might have caused such a serious disturbance. It is difficult to explain an outlier.

Stability of Growth Measures

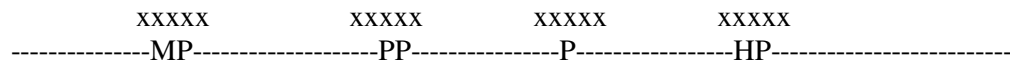
For quite some time, we have known that student gain scores can be unreliable (Cronbach and Furby, 1970). A recent paper address the fact that growth scores in accountability system are often unstable (Griffith & Petrilli, November 10, 2017) When combined to form class means, gain scores can have increased reliability. When combined by school, we should know that reliability estimate. Also, we should have descriptive statistics, reliability estimates for various units of analysis. Amrein-Beardsley (2014) presents arguments and observations about residual and interaction effects that may distort an interpretation of teacher effects. One of these is that teachers may swap teaching assignments. I have done this in my elementary school teaching. Thus, a teacher effect is distorted. We know that some schools and teachers offer incentives whereas other do not. This too is a type of distortion. As we can see, growth measures do not seem to be too stable yet they play an important role in the accountability

system.

Reliability and the Use of Cut Scores to Produce Achievement Classifications

Reliability is a useful concept. However, it is only a gateway to a more important statistic: Conditional standard error of measurement (CSEM). We use adjusted test scores and three cut points on the test score scale to classify students as Minimal Proficiency (MP), Partial Proficiency (PP), Proficient (P), and High Proficiency (HP). These are graded categories. Underlying these categories is a continuous scale representing student achievement. Two highly relevant and related questions/concerns arise:

1. The CSEM is an estimate of how much random error exists around each cut score that separates MP and PP, PP and P, and P and HP. Graphically it looks like this:



Each x represents a school near the cut point.

Schools will be distributed close to cut points. The margin of random error is important because schools might be misclassified simply due to random error. If the margin of random error is large, than many schools are at risk of misclassification. It is important to know this and to have a strategy for minimizing the risk of misclassification.

2. The four categories for classifying students is artificial. It is based on human judgment, which we know is subjective and is possibly biased. Moreover, the categories are crude approximations of an underlying score scale that is more informative than these categories. Various panels of persons setting these cut scores produce different recommendations. When we measure growth, a school may have a sizable improvement yet still remain in the same category. Another school may have very small growth, but due to the fact that they reside at the cut point will be reclassified as improving. This fact exposes a danger in using categories instead of actual test scores. Moreover, states vary considerably in the stringency of their cut scores (Betebrenner & Linn, 2000).

Construct-irrelevant Variance (Bias)

The idea that test scores can be corrupted has been around for a long time. In 1988, Haladyna, Nolen, and Haas (1989) were invited by the Arizona legislature to conduct a study of how Arizona teachers regard the administration and use of the state's standardized achievement test. This was in the day of low-stakes testing. The results showed considerable cheating on the test. These results were confirmed by another, independent study (Smith, 1989) where interview data supplanted the survey data. With high-stakes accountability, cheating is an industry and scandal that has touched many cities, including New Orleans, Dallas, Houston, Atlanta, Chicago, Washington, DC to name a few. We have many strategies for improving test scores without relying on real student learning. It is very important to study threats to validity, which technically are called construct-irrelevant variance (Haladyna & Downing, 2004). Bias is a term that more popularly describes contamination in test scores.

A study by Briggs and Weeks (2009) revealed that different growth models produced different results. Thus the model itself comes into question in producing bias in test scores. Which model is most

accurate, truthful? A related issue is that any growth measure is subject to its size versus how it compares with other similar students. This issue collides with the use of poverty or risk as a control. As stated previously (Haladyna, November 26, 2017), poverty is a poor control variable because risk is much more complicated and representative of the hardships students at-risk face in schools.

Discontinuity From Grade to Grade

Examination of content standards for each grade level (grade 3 to 8) will show considerable variation. The test used for each grade level represents what is supposed to be taught. However, most teachers will adapt teaching to the status of the class, what they can actually do as opposed to what they should do at that grade level. Low achieving fourth graders will likely be reviewing third grade work, and high-achieving sixth graders may enjoy enrichment activities. Both groups may suffer when growth is considered on a single test that is not well aligned with instruction. One way to discover these inequities is a forensic item analysis where each item is subjected to independent analysis for bumps and falls. Teachers can actually predict which items their students will perform well and which items they probably will not perform well.

Another point, made by Betebrenner and Linn (2000) is that the subject matter tested may change from grade to grade, thus a smooth continuum in a vertical scale may not represent actual student growth but jumps due to the structure of the subject matter. For instance, mathematics is cited where algebra may be emphasized in one grade, and geometry emphasized in an adjacent grade.

Conclusion

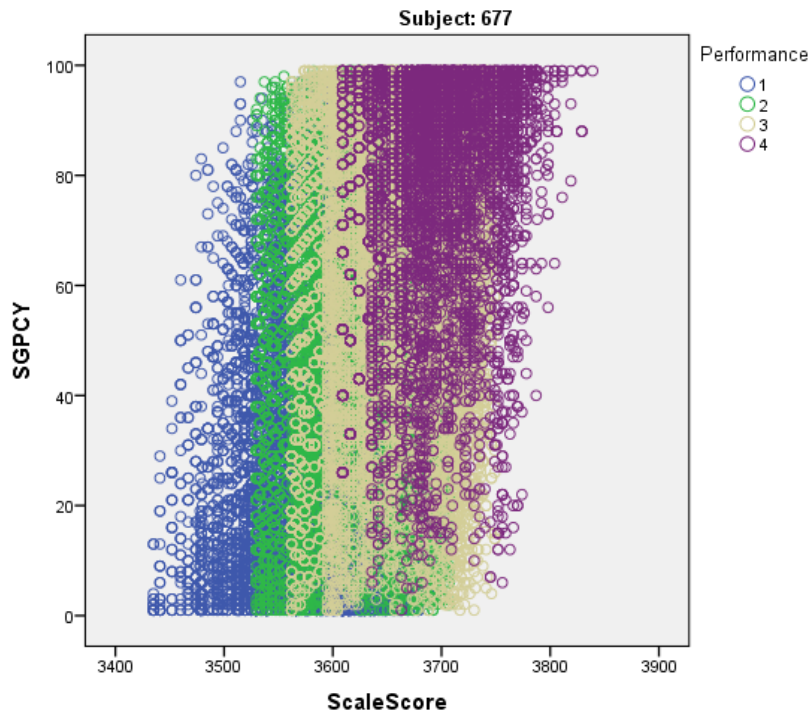
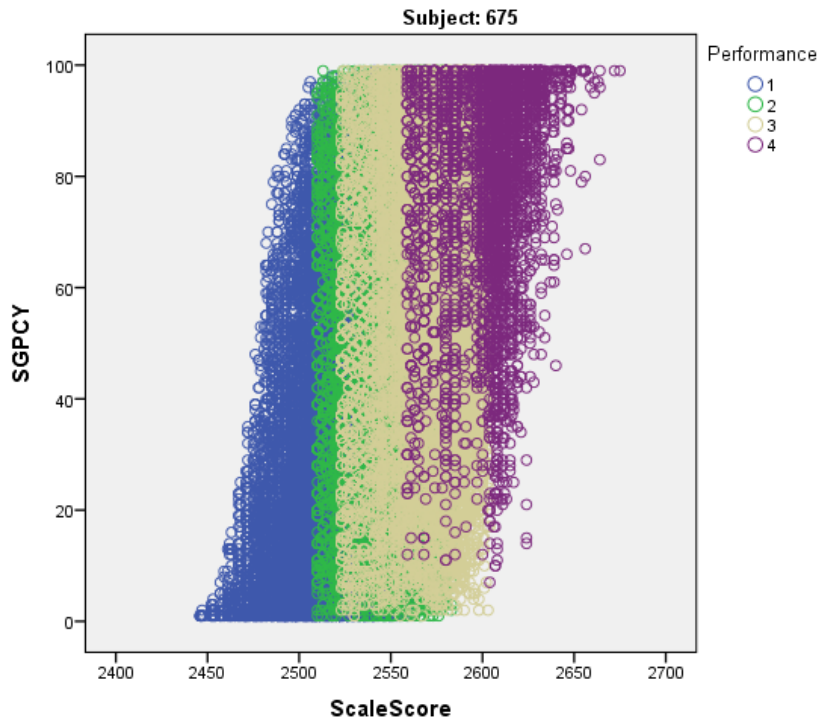
We have many challenges in measuring growth and then using it appropriately to improve student learning. Betebrenner and Linn (2010, p. 4) stated: “Growth analyses based upon impoverished measures of student achievement are themselves necessarily impoverished.” Linn (2008) further states that growth results in an accountability system should not be used for causal inference but should be used to flag schools for investigation.

Given the high-stakes use of growth scores, validity studies, technical documentation, and peer review are important activities that help validate the use of growth scores in this accountability system.

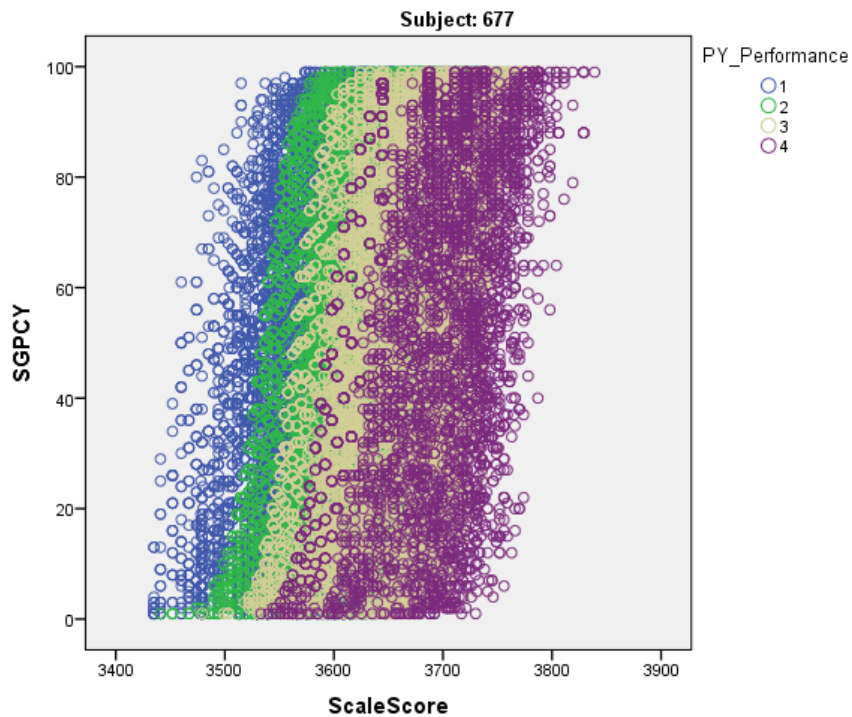
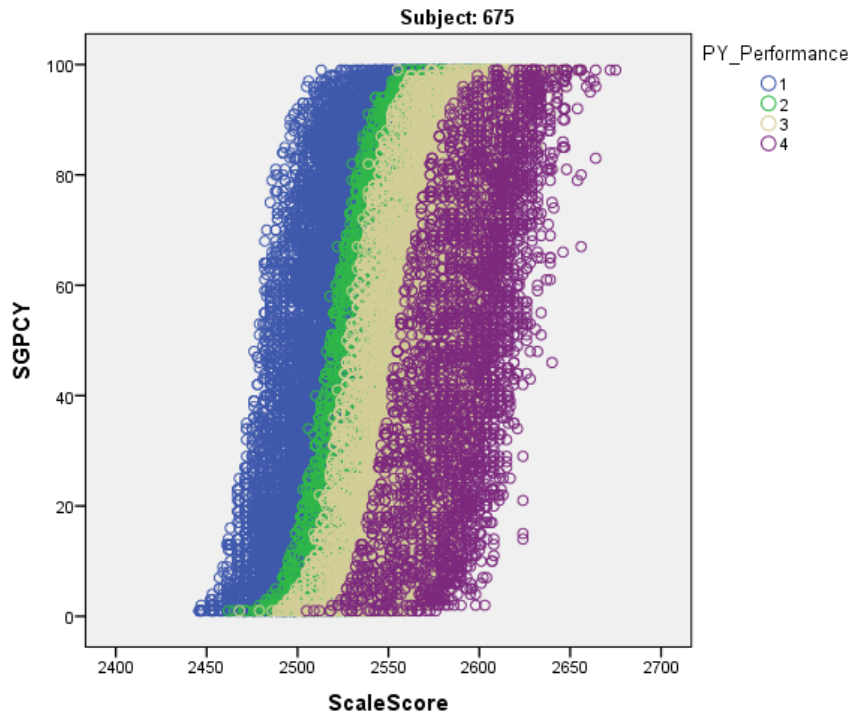
Before embracing growth measures and embedding them in complex statistical models, we need some assurance that the data provided is validly interpreted.

References

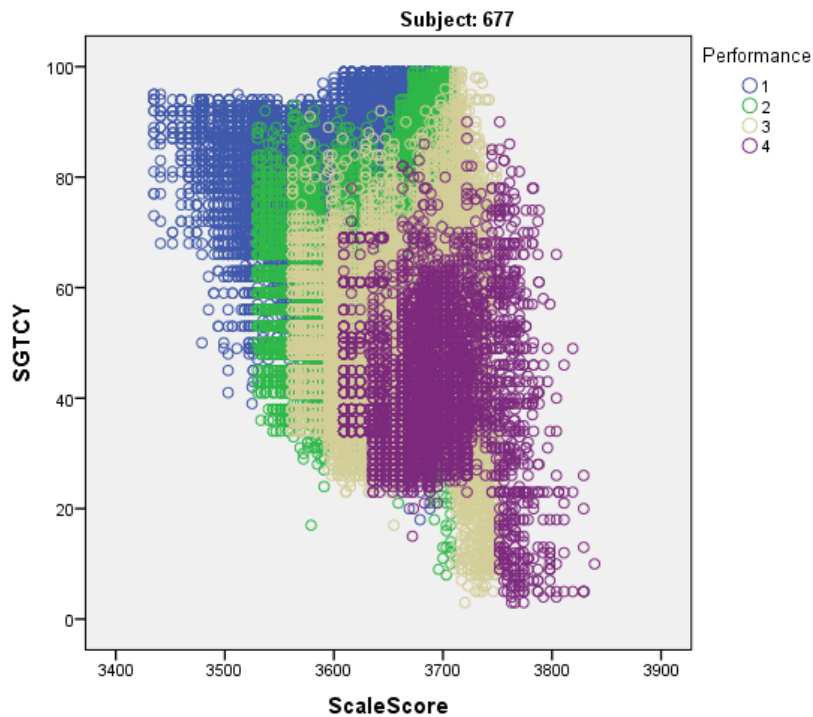
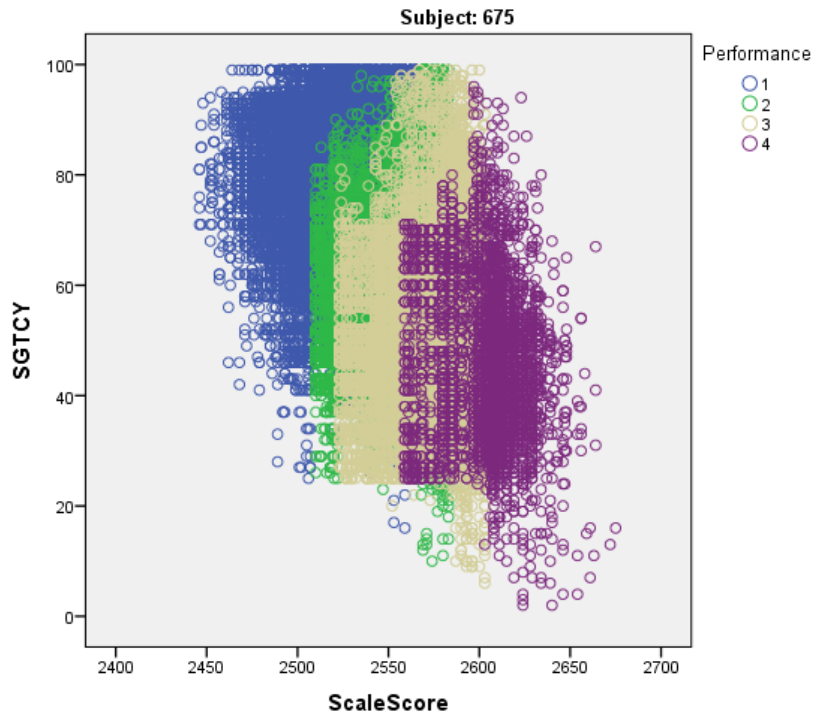
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Here is an analysis done of the MPS student level A-F static file posted in October 2017. It is broken out by subject. 675 is ELA, 677 is Math. SGPCY represents the Current Year Student SGP, Scale Score is also current year Scale Score. Performance levels are 1 for Minimally Proficient, 2 for Partially Proficient, 3 for Proficient, and 4 for Highly Proficient. MPS students across all proficiency levels are demonstrating growth on AzMERIT.



Here is an analysis done of the MPS student level A-F static file posted in October 2017. It is broken out by subject. 675 is ELA, 677 is Math. SGPCY represents the Current Year Student SGP, Scale Score is also current year Scale Score. PY_Performance levels are for Prior Year Performance and are 1 for Minimally Proficient, 2 for Partially Proficient, 3 for Proficient, and 4 for Highly Proficient. MPS students across all prior year proficiency levels are demonstrating growth in the current year on AzMERIT.



Here is an analysis done of the MPS student level A-F static file posted in October 2017. It is broken out by subject. 675 is ELA, 677 is Math. SGTCY represents the Current Year Student SGT, Scale Score is also current year Scale Score. Performance levels are for Current Year Performance and are 1 for Minimally Proficient, 2 for Partially Proficient, 3 for Proficient, and 4 for Highly Proficient. MPS Minimally Proficient students have a much higher SGT than their Highly Proficient counterparts. The cause of outliers would need to be investigated in the future.

ELPoints – K-8 Dataset

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2	16	1.1	2.5	2.5
	4	8	.5	1.2	3.7
	5	40	2.7	6.2	9.9
	6	46	3.1	7.1	16.9
	7	78	5.3	12.0	29.0
	8	89	6.1	13.7	42.7
	9	125	8.5	19.3	61.9
	10	247	16.8	38.1	100.0
	Total	649	44.2	100.0	
	Missing System	818	55.8		
Total	1467	100.0			

In the K-8 Dataset (TAC_K8_schooldata2.0.xls), 38% of schools eligible for the EL points earned the full points available.

ELPoints – 9-12 Dataset

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	3	.8	4.5	4.5
	5	1	.3	1.5	6.0
	6	1	.3	1.5	7.5
	7	6	1.6	9.0	16.4
	8	22	6.0	32.8	49.3
	9	21	5.7	31.3	80.6
	10	13	3.5	19.4	100.0
	Total	67	18.2	100.0	
Missing System	301	81.8			
Total	368	100.0			

In the 9-12 Dataset (TAC_912_schooldata2.0.xls), 19% of schools eligible for the EL points earned the full points available.

Arizona State Board of Education
Technical Advisory Committee
Report

December 4, 2017

DRAFT

Background

On October 23, 2017, the State Board of Education (Board) directed the Technical Advisory Group (TAC) to review the A-F Accountability Plan, business rules and impact data for problematic issues.

To date, the TAC has met four times to discuss issues relating to the impact data, business rules and the A-F Accountability Plan.

From reviewing the data, the TAC has identified some problematic issues:

N-Count:

To be determined at the meeting on November 28th

Growth:

Typically, students who are highly proficient and proficient will benefit from the SGT calculation, whereas students who are partially proficient and minimally proficient will benefit from the SGP calculations. However, due to the normative nature of both calculations, a third of the students in each group will not receive points, based upon the nature of the calculation.

The TAC committee has found that within the Student Growth to Target (SGT) formula, within the growth indicator, there is a negative correlation with students who are already at proficient. The SGT model is causing a “ceiling” effect on those students who earn the highest proficiency levels and needs to be studied further.

Another analysis argues that the growth indicator negatively impacts schools with high proficiency, due to the weighting within the SGP/SGT model. For example, a student who is proficient the first year and proficient the second year, still has made a year of growth, yet, may not be rewarded for that growth within the SGP/SGT model, due to the weights given to the different growth levels. An answer for this would be to allow for a student with average growth within proficient and highly proficient to earn full points.

In addition, a policy question was brought forth on whether a highly proficient student who falls to proficient the next year, should be penalized for “no growth” when in reality, the goal of all students is to be proficient. Some have argued that a threshold be put in place to reward schools for maintaining proficient students and not allowing those students to slip back into the lower categories, while allowing for lower proficiency schools to earn growth points for moving students into higher categories of proficiency.

Acceleration Measures (K-8):

Threshold metrics should be put into place for the different categories within this measure, due to the potential of schools flip-flopping from year to year. At face value, most schools are earning all of their points, which would show that this measure is “stable”, however, over time, most schools will move from one area to the next, most likely still getting all of the points within this category.

N-count plays into this measure, due to numerous schools not being able to receive points because of lower student counts. Lowering the N-count would help smaller schools.

In addition to the above, some schools are only eligible for a limited number of the acceleration points. By setting a different policy, where schools would have to get points based upon what they are eligible for, may elevate some issues.

Subgroup calculations will also benefit those schools that have a larger student population due to the school's ability to allow for more students to get points year after year. Small schools with a smaller student population may be faced with negative growth year after year due to small changes within their student population.

Proficiency:

In order to address the transparency issue, the TAC determined that the "stability" model has a small impact on a school's overall score within the proficiency indicator. The TAC would like to address this issue further.

In addition to above, TAC committee members had questions on how the FAY stability model was calculated. The committee believes that work can be done around this area to help the field understand the system.

Lastly, the committee pointed out that the proficiency indicator will continue to favor low poverty schools and that the weights given to the school, based upon the students' proficiency levels, looks as if it is measured using an index, rather than a total number of students proficient.

ELL:

In analyzing the ELL scores, 38% of all schools received the full points allotted within this measure. There is concern that schools who do not meet the N-count for the ELL calculation are graded on a 90 point scale, however, those schools may also not meet the Acceleration N-counts, thus, those schools would be graded on a 80 point scale, bringing more weight to the AzMerit assessment. Lowering the N-count for this indicator may be beneficial to those schools who are losing out on ELL points.

Free and Reduce Lunch (FRL)