

# Academic Progress Monitoring for English Learners: Frequently Asked Questions (FAQ)

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| Academic Progress Monitoring for English Learners: Frequently Asked Questions (FAQ) .....  | 1  |
| 1. How does the TRC consider evidence for tools that can be used at multiple grade levels? .....   | 2  |
| 2. How does the TRC define English learners? .....   | 2  |
| 3. What is the difference in requirements between the “performance level standards” section of the chart and the “growth standards” section of the chart? .....  | 2  |
| 4. What does the TRC consider sufficient with respect to sample size? .....  | 2  |
| 5. What does the TRC expect vendors to submit for reliability of the performance level score, and what factors are considered when rating the quality of this evidence? .....                                  | 3  |
| 6. How should EL samples be included in the reliability evidence? .....  | 3  |
| 7. What does the TRC expect vendors to submit for validity of the performance level score, and what factors are considered when rating the quality of this evidence? .....                                     | 4  |
| 8. What additional guidance is there for establishing validity evidence for EL students? .....   | 5  |
| 9. What does the TRC expect to see for evidence that a measure is not overaligned? .....   | 5  |
| 10. How does the TRC consider evidence that is disaggregated for demographic subgroups (e.g., English learners, students with disabilities, students from different racial/ethnic groups)? .....               | 6  |
| 11. What kind of evidence does the TRC expect to see for Bias Analysis? .....  | 6  |
| 12. What does the TRC expect to see for reliability of the slope for ELs? .....  | 8  |
| 13. What does the TRC expect to see for validity of the slope? .....   | 9  |
| 14. What does the TRC expect vendors to submit for alternate forms, and what factors are considered when rating the quality of this evidence? .....  | 10 |
| 15. What does the TRC expect vendors to submit for decision rules for setting and revising goals and for changing instruction, and what factors are considered when rating the quality of this evidence? ..... | 11 |
| 16. Can I submit tools that can be used as screening tools for review by the progress monitoring TRC? .....  | 11 |
| References .....   | 12 |



### **1. How does the TRC consider evidence for tools that can be used at multiple grade levels?**

Submissions must report data separately for each grade level that is targeted by the progress monitoring instrument. Evidence will be rated and reported on the chart separately for each grade. In cases where data are not available for one or more grades that fall within the grade span targeted by the tool, the TRC will give a rating of “—” to indicate “data were not available.”

### **2. How does the TRC define English learners?**

Not all students who speak English as a second language are English learners. For instance, students may speak another language in their home environment but also speak English fluently or to the extent that they do not need English learner supports. NCII uses the term EL to represent those students classified as English learners under state criteria. Vendors should submit evidence on how they identified their sample of English learners and provide a justification for the assessment tool used and decision point at which they determined a student should be classified as an English learner.

### **3. What is the difference in requirements between the “performance level standards” section of the chart and the “growth standards” section of the chart?**

For data reported on the first tab of the chart (“performance level standards”), vendors will be required to report analyses conducted on the general population of English learner students (i.e., a sample that is representative of students across all performance levels). For data reported on the second tab (“growth standards”), vendors will be required to report analyses conducted on a population of students in need of intensive intervention. Convincing evidence that children were in need of intensive intervention may include one or more of the following:

- all students below the 30th percentile on local or national norm;
- sample mean below 25th percentile on local or national test;
- students have an IEP with reading goals or math goals that are consistent with the tool;
- students are non-responsive to Tier 2 instruction.

### **4. What does the TRC consider sufficient with respect to sample size?**

For each of the technical standards, rather than specify a concrete minimum sample size, the TRC has established a lower bound for an estimate and requests that the vendor provide a confidence interval (CI) around the estimate. If a sample is small but evidence shows that the estimate remains above this lower bound, it will be considered acceptable. This lower bound varies by standard and is stated in the rating rubric. Note that for model-based psychometric



evidence, providing Test Information Function (TIF) or Standard Error (SE) plots to judge the relative precision of an estimate is acceptable in place of providing CIs.

## 5. What does the TRC expect vendors to submit for reliability of the performance level score, and what factors are considered when rating the quality of this evidence?

The TRC considers reliability analyses that are rigorous, and that are appropriate given the type and purpose of the tool.

For progress monitoring tools that use total scores or fluency-based measures, the TRC recommends reporting model-based indices of item quality. These can include McDonald's omega (Dunn, Baguley, & Brunsdon, 2013; McDonald, 1999) for categorical SEM or factor models, Item Response Theory estimates of item quality based on item information functions (Samejima, 1994), or reliability of the score for fluency-based measures. For IRT-based models, vendors should consider reporting marginal reliability as well as an ability-conditional estimate (e.g., report reliability estimates for students with differing levels of ability) so that the strength of IRT reporting can be fully leveraged in reporting (Green, Bock, Humphreys, Linn, & Reckase, 1984). Note that for marginal reliabilities, coefficients may not differ much from Cronbach's alpha and can therefore be interpreted using the same guidelines.

If model-based approaches are not used, it is expected that strong evidence for at least two other forms (see list of examples below) of appropriately justified reliability are provided to receive a full bubble. Regardless of the type of reliability reported, given that intended uses for tools can vary, it is incumbent on the vendor to provide supporting justification of the choice of emphasis for reliability evidence.

### ***Examples of Forms of Reliability:***

- Alternate form:
  - For multiple forms, evidence can be provided to indicate that the alternate forms yield consistent scores across probes within a given set (e.g., using median score of multiple probes) and across a period of time.
- Internal consistency (alpha):
  - Ad hoc methods for item-based measures include internal consistency methods such as alpha. Alpha is the mean of all possible split halves (Cronbach, 1951). However, alpha is not an index of test homogeneity or quality per se (Schmitt, 1996; Sijtsma, 2009).
- Inter-rater:



- The TRC strongly recommends that inter-rater reliability be reported for tests that are subjective and require human judgment (e.g., open-ended questions as opposed to simple choice selection or computer-recorded responses that would not require inter-rater reliability). The analyses should acknowledge that raters can differ not only in consistency but also in level. Possible analyses include multilevel models of ratings within judges and students, generalizability theory, and invariance testing in SEM.

\*Note that the TRC **does not accept** split-half reliability or test-retest metrics. Split-half reliability is problematic given that these methods can be arbitrary and potentially artefactual. Test-retest is problematic given that high and low retest reliability may not always signal a reliable assessment, but instead reflect student growth patterns (e.g., high test-retest can mean that students aren't changing over time, or maintaining the same rank order, and low test-retest can mean that students are meaningfully changing over time and changing differently).

## 6. How should EL samples be included in the reliability evidence?

The same forms of reliability evidence used for full-group analyses can be used for an EL group analysis. When submitting reliability information for ELs, vendors should provide evidence that the sample is representative of students who are EL across all performance levels of the tool being evaluated. Where feasible, additional information on the reliability of the tool based on student characteristics such as English proficiency, language of instruction, heritage language spoken at home, national origin, and dialect variations, may be helpful for practitioners, but are not required.

## 7. What does the TRC expect vendors to submit for validity of the performance level score, and what factors are considered when rating the quality of this evidence?

The TRC expects vendors to offer a set of validity analyses that offer theoretical and empirical justification for the relationship between its tool and a related criterion measure. In other words, the vendor needs to specify the expected relationship between the tool and a criterion, and then use an appropriate empirical analysis to test this relationship. The TRC discourages vendors from providing a large list of validity coefficients correlating with multiple criterion measures, and instead recommends a few analyses that have a theoretical basis about a relationship between the tool and a small set of appropriate criterion measures.

Types of validity may include evidence based on response processes, evidence based on internal structure, evidence based on relations to other variables, and/or evidence based on consequences of testing. The vendor may include evidence of convergent and discriminant validity. However, regardless of the type of validity reported, the vendor must include a justification showing how these data taken together demonstrate expected relationships



between the measure and relevant external criterion variables. If appropriate, the vendor should consider the fact that analyses against more proximal outcomes might be expected to show higher correlations than analyses against distal measures and offer explanations of why this is the case.

In the TRC's view, validity evidence based on **internal** criterion measures (i.e., measures that come from the same "family" or suite of tools) does not provide adequate support for validity. The TRC expects evidence based on criterion measures that are **external** to the progress monitoring system. The TRC encourages vendors to carefully select external criterion measures, and recommends choosing other, similar measures that are on the tools chart. If it is necessary to use internal measures, the vendor must describe provisions that have been taken to address limitations such as possible method variance or overlap of item samples.

## 8. What additional guidance is there for establishing validity evidence for EL students?

The TRC expects to see validity evidence that considers EL students' English proficiency in relation to their performance on English measures. The forms of validity evidence mentioned in question 7 are appropriate for EL students.

## 9. What does the TRC expect to see for evidence that a measure is not over aligned?

Historically, NCII only accepted tools deemed external to the vendor as evidence that tools were not over aligned. However, as vendors acquire previously developed tools, NCII recognizes that two tools from the same vendor can meet the previous requirement of an external tool under certain conditions. The TRC expects that vendors use criterion tools that are not over aligned with the tool submitted for review for a vendor to be eligible to receive Half Bubble or Full Bubble ratings. There are two main avenues that vendors can provide justification that tools are not over aligned:

- (1) The criterion tool is **external** to the progress monitoring system (i.e., it comes from a separate suite of tools that is external to the vendor).
- (2) The tool is **internal** to (i.e., owned by) the vendor, but evidence is provided demonstrating that the criterion tool is not over aligned with the tool submitted for review. In addition to confirming that **the criterion tool used is external to the progress monitoring tool's "suite" of assessments** - including tools used for screening - vendors should provide evidence:



- a. The criterion tool was developed prior to being acquired by the vendor and items have not been added, removed, or adjusted to align with existing vendor tools, and/or
- b. Separate samples of students were used to develop validity and reliability evidence for the tools, and
- c. There is minimal to no overlap in the content of the items across the criterion tool and tool submitted for review.

**Example.** A vendor acquired a new tool that was developed prior to acquisition. The vendor submits evidence that though the tool is now internal to the vendor, the “suite” is separate from other tools the vendor owns, including evidence that the tools had separate samples during development, that the content does not overlap, and that districts purchase the two suites separately through the vendor. The vendor uses their non-over aligned screening tool as evidence for the newly acquired progress monitoring tool. Based on meeting the criteria set forth in each standard, the vendor would be eligible to receive a Half Bubble or Full Bubble rating in this instance.

**Non-example.** A vendor submits evidence of a screening measure or other progress monitoring measure as a criterion tool that is part of the same suite of tools, there is evidence that there is significant item overlap, or reliability and validity evidence are drawn from the same sample of students. The vendor would receive an Empty Bubble rating in these instances.

## **10. How does the TRC consider evidence that is disaggregated for demographic subgroups (e.g., English learners, students with disabilities, students from different racial/ethnic groups)?**

The TRC encourages vendors to include data disaggregated for demographic subgroups. Any submission that includes disaggregated data will be noted on the chart with a “d” superscript, and users can access the detailed information by clicking on the cell. Note that disaggregated data will not be rated, but instead just made available to users. An advanced search function for the chart will also enable users to quickly locate tools that have data disaggregated for the subgroups in which they are interested.

## **11. What kind of evidence does the TRC expect to see for Bias Analysis?**

With respect to bias, the greatest threat to validity is construct-irrelevant variance (Messick, 1989, 1995) which may produce higher or lower scores for examinees for reasons other than the primary skill or trait that is being tested. The issue of bias, or lack thereof, constitutes an argument for validity (Kane, 1992). Arguments for the valid use of a test depend on clear



definitions of the construct, appropriate methods of administration, and empirical evidence of the outcome and consequences.

In general, comparisons of group means are not sufficient for demonstrating bias or the lack thereof because the properties of the items are conflated with the properties of the persons (Embretson, 1996; Embretson & Reise, 2000; Hambleton & Swaminathan, 1985; Hambleton, Swaminathan, & Rogers, 1991). Measurement models of latent traits (e.g., item response theory, confirmatory factor analysis, or structural equation models for categorical data) are better suited to provide rigorous examinations of item versus person properties. Speeded tests present additional complications, but those complications do not remove the need to understand issues of test fairness or bias.

The overarching statistical framework for issues of bias is that we have a structural factor model of how a trait predicts item responses (McDonald, 2000), and this model is tested for equality across two groups (Joreskog, 1979; Vandenberg & Lance, 2000). Most analyses of group differences can be seen as simplifications or restrictions on this general model. The TRC will consider any of the four methods below as acceptable evidence for bias analysis:

- Multiple-group confirmatory factor models for categorical item response (Meredith & Teresi, 2006). Categorical CFA allows the testing of equal item parameters across groups via a series of restrictions (e.g., from freely estimated to fully equated) to isolate group differences of persons from item bias.
- Explanatory group models such as multiple-indicators, multiple-causes (MIMIC; Muthen, 1988; Woods, 2009) or explanatory IRT with group predictors (De Boeck & Wilson, 2004; Van den Noortgate, De Boeck, & Meulders, 2003).
  - MIMIC models attempt to test the equivalence of item parameters, conditional on background characteristics or group membership (analogous to an ANCOVA, but for a factor model). Most forms of a MIMIC model represent a restriction of a multiple group CFA.
  - Explanatory IRT uses a multilevel regression framework to evaluate the predictive value of item and person characteristics. A series of models with increasing (or decreasing) restrictions can be fit to test conditional equivalence (or non-significance) of item or person difference parameters.
- Differential Item Functioning from Item Response Theory (DIF in IRT). There are several approaches to evaluating DIF across groups (Hambleton & Swaminathan, 1985; Hambleton et al., 1991; Zumbo, 2007), many of which are exploratory methods to uncover the possibility of group differences at the item level. Vendors might also consider referencing



Meade's taxonomy of standardized effect sizes for DIF that allow for interpretation of the practical impact of DIF (Meade, 2010).

## 12. What does the TRC expect to see for reliability of the slope for ELs?

Reliability of the slope measures the ratio of true score variance to total variance. In addition to an overall estimate of slope reliability, the TRC expects that vendors include conditional estimates of the reliability of the slope related to EL students. Conditional estimates could include evidence conditional on English proficiency levels, heritage language spoken at home, language or languages of instruction (dual language versus English-only instruction), or student or family members' national origin.

An explanation of the concept of slope reliability can be found in Raudenbush and Bryk (2002). Page 50 has an equation that describes how reliability can be computed (equation 3.59). Reliability of the slope is different from standard error of the slope in that its value is not dependent on sample size.

For example, vendors might do one or more of the following. Please note that the method for calculating the reliability of slope should match the procedures users will use when calculating slope. Also, note that these examples are not exhaustive; they are simply suggestions from the TRC.

- Use the software program HLM to obtain the estimate of reliability for the slope. HLM will produce estimates for reliability of the slope automatically. The student version of this program can be obtained free of charge from the Scientific Software International website, which is <http://www.ssicentral.com/>. Fitting a model that allows for random intercepts and random slopes will more than likely be sufficient for obtaining this reliability estimate.
- Use another program, such as SPSS or SAS, to run a mixed modeling command to produce estimates for reliability of the slope. This is more cumbersome since these programs do not produce reliability estimates and additional calculations must be made. The generic formula for reliability is  $(\text{true score variance})/(\text{total variance})$ . To compute reliability of a slope using SPSS or SAS, one needs to obtain estimates for each.

To obtain estimates of the true score variance of the slope estimate, one needs to run a procedure for mixed models. In SPSS, it's called Mixed, and in SAS, it is Proc Mixed. Both programs require that your data be in univariate format (where your dependent variables such as Oral Reading Fluency would be represented in one column or variable, and the rows represent the number of occasions an assessment was made on each person. So, if a person has four assessments, for example, there would be 4 rows of data for that person). Another variable indicating the time at which the assessment occurred is also needed. The metric of this





time variable does not matter. It could be in days/weeks/months from the first assessment, for example. So, if one has a dataset that has three variables (ID, ORF, and TIME) laid out in a univariate format, one could run the following code in SPSS

```
MIXED orf with time
/Print=solution testcov
/method=ml
/FIXED = time
/random =intercept time |subject(id) covtype(un).
```

Or in SAS,

```
proc mixed data=temp covtest;
class id;
model orf=mtime;
random intercept mtime /subject=id type=un;
run;
```

From this, you can obtain the estimated true score variance of the slope. In SPSS, it is the estimate labeled UN(2,2) in the box “Estimates of Covariance Parameters” and in SAS it is also labeled UN(2,2) in the section labeled “Covariance Parameter Estimates”.

This is the estimate of the true score variability of the slope and will serve as the numerator of your reliability estimate.

The denominator for your reliability is the estimate of total variance of the slope and can be obtained in several ways. What you need is to obtain the OLS slope estimate for each person, and then compute the variance of these estimates. If you are familiar with SAS, these can be obtained directly in the Proc Mixed procedure, or one can simply run a regression for each person (predicting their performance using time), then take the unstandardized regression weights for each person for time and find the variance of those weights. Then use this as the denominator of your reliability estimate.

### 13. What does the TRC expect to see for validity of the slope?

To provide information on the predictive validity for the slope of improvement, vendors should correlate the value of the slope with a non-over aligned achievement outcome that is appropriate for use with EL students. The achievement outcome needs to be (a) external to the progress-monitoring measure/system and (b) include a well-justified analysis. Examples of well-justified analyses include:

- A data point collected concurrently with the last data point used for the slope.



- A data point collected after the last data point used for the slope.
- Concurrent administration of two progress monitoring tools (one external to the progress monitoring suite) evaluating the same construct across time.
- Academic screening data from an external tool collected prior to, or at the beginning of progress monitoring, and again at the completion of progress monitoring.

For details on how to identify appropriate non-over aligned criterion measures, refer to Question 9. Vendors also need to specify what the measure is and when, in relation to the progress-monitoring data, it was collected.

The TRC asks that vendors provide information on:

- a) the number of data points per student (average and range);
- b) the number of months spanned by the data collection per student (average and range).

If the outcome measure used is not external to the progress monitoring measure/system, then the vendor must describe what provisions have been taken to address the limitations of this method, such as possible method variance or overlap of item samples.

#### **14. What does the TRC expect vendors to submit for equivalent forms, and what factors are considered when rating the quality of this evidence?**

For a full bubble rating on equivalent forms, vendors must demonstrate that there are at least 10 equivalent forms, AND that mean performance on equivalent forms is comparable. It is not sufficient to indicate equivalence across a subset of the forms; evidence must be included that demonstrates comparability across all 10 (or more) forms. It is also not sufficient to simply describe the construction process for these forms. Actual empirical data must be submitted to support form equivalence.

Evidence submitted for the equivalent forms' standard can take various forms. Some examples include:

- a) Descriptive statistics and test of comparability for form differences. For example, a mean and range of coefficients (e.g., means) for all possible forms, and a one-way ANOVA comparing the mean scores of the forms.
- b) A model-based estimate of form effects or reliability, such as from generalizability theory or multilevel models. Variance components or intraclass correlation from multilevel models (e.g., persons nested within forms) can be efficient to show the relative size of mean differences due to many forms (and other design effects, if present).



These methods may not be suitable for computer-adaptive tests (CATs), as such assessments do not rely on fixed forms. Relevant analyses for CATs might include:

- Providing data on how frequently item characteristics are evaluated for stability/drift; this may include evidence from previous studies evaluating stability and equivalence.
- A description of how items are administered to reduce frustration, fatigue, and boredom.
- An examination of item coverage and construct validity; e.g., describing how many items of each kind are presented to children or explaining the stopping criterion.
- Data on how many questions are in the item bank and what procedures/rules are in place to reduce under/over-exposure of items.

**15. What does the TRC expect vendors to submit for decision rules for setting and revising goals and for changing instruction, and what factors are considered when rating the quality of this evidence?**

The purpose of the decision rules for setting/revising goals and the decision rules for changing instruction standards is to identify and evaluate the evidence on which decision rules for changing instruction and increasing goals are based. Therefore, the TRC expects to see evidence that the tool can accurately detect small changes in performance during the time period that the tool specifies is necessary for users to make decisions. Strong evidence for these standards may include:

- Analyses of data establishing rates of improvement and sensitivity to improvement, that are based on a sample of students in need of intensive intervention and from whom progress monitoring data have been collected an appropriately justified number of times over the period of time specified in the tool’s decision rules, or
- An empirical study that compares a treatment group to a control and evaluates whether student outcomes increase when decision rules are in place.

**16. Can I submit tools that can be used as screening tools for review by the progress monitoring TRC?**

Yes, if the tool can also be used for progress monitoring purposes. Specifically, the tool must be able to reliably measure growth in an overall academic domain over a period of 10 weeks or more. For tools that measure narrower skills that can be mastered in shorter periods of time and that predict competency in broader academic domains (e.g., letter naming fluency, oral counting), the TRC recommends submitting for review by the screening TRC, to be consistent with how users are most likely to use the tool.



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