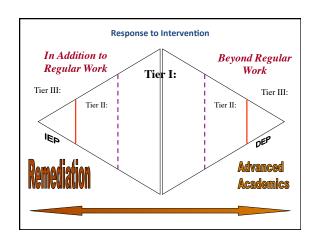
Measuring Growth in Advanced Learners in a Post-Proficiency Era

Two Problems with Growth

- Getting growth: Curriculum is often not focused at gifted students' Zone of Proximal Development
 - If students aren't taught new content, how will they grow?
- Showing growth: Assessments used do not have sufficiently high test ceilings to measure gifted students' performance
 - If the test can't show us where the child has achieved, how can we measure growth?

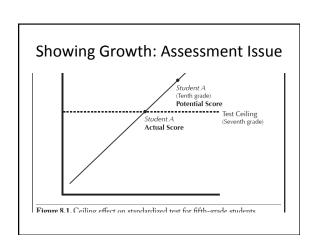
Getting Growth: Curricular Issue

- Growth will never happen if a student is in a classroom that is below his or her ZPD
- Easy solution: curriculum should be needsbased. What a student is taught should be a factor of what he or she has already mastered.
 - The age-based classroom is a significant barrier



Getting Growth

- If you don't have curriculum / services / interventions in place that might reasonably result in student growth, then don't bother trying to measure growth.
- Having instruction that was based on prior learning and current level of mastery is a prerequisite to growth.

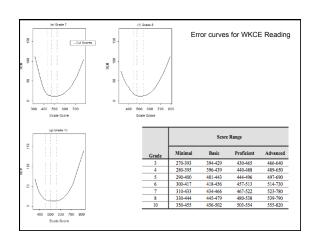


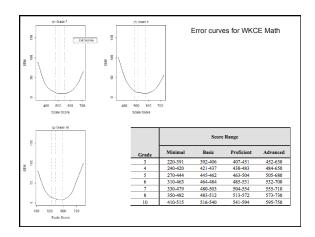
Showing Growth: Two Issues

- Ceiling Effects (quant differences): The content is right but the test doesn't go high enough
- 2. Content Coverage (qual differences): The tests that do cover the range of the student's learning don't cover the right content standards mis-aligned

Showing Growth: Assessment Issue

- Growth for gifted kids will always be hard to show with assessments based on grade-level standards.
- Small number of items written for a given range of ability = high error levels at that range.
- Wisconsin Knowledge and Concepts Exam:





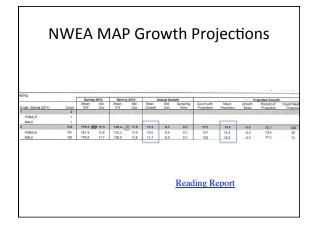
Assessment Issue: Solutions?

- Computer-adaptive tests:
 - Smarter Balanced Assessment (in theory)
 - Measure of Academic Progress (MAP)
- · Out-of-Level / Above-Level testing
 - EXPLORE Test in Talent Searches
 - Summative tests from the next grade level use in SLOs.
- Individually-administered achievement tests (WJ-III, WIAT, etc.)

NWEA MAP Growth Projections

- Projections are based on:
 - Student's grade
 - Student's prior RIT score
 - Subject area

Represents the best guess "average" growth for a student in that grade in that subject with that prior score.



NWEA MAP Growth Projections

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 - Student's grade
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 - Subject area

In other words, a student who "met" his growth targets made about average growth (compared to the peers from above)

- Note this is supposed to be Fall to Spring
- On average about 60% of students meet growth targets - this is how they are designed

WI Report Cards

- Growth on School Report Cards (SRC) vs. MAP
- SRC base growth "goodness" on whether or not a person is on target to reach the next proficiency threshold.
- SRC are also based on Fall to Fall performance
- "Growth" only counts if it's across thresholds*
- WKCE is a terrible test for growth measurement

Why so Different?

- "Growth" only counts if it's across thresholds* In terms of school / district report cards
- Read that last sentence a few times...what does it mean?
- Students who were advanced last fall can earn you NO POINTS
- Students who score "minimal" this fall can only hurt you (from last year)

Growth on SRC Growth/Decline Trajectory Starting Level Min. Perf. 10 students 16 students 6 students 1 student +3 points Minimal 33 students 0 points +16 points +12 points 6 students 46 students 11 students 3 students Basic 66 students 0 points 0 points +11 points +6 points 1 student 16 students 34 students 9 students 60 students Proficient -1 point -16 points 0 points +9 points 0 students 0 students 7 students 6 students Advanced 13 students What do you notice here?

Assessment Issue: Solutions?

- All tests are limited by the standards on which they are based
- Translation: Don't expect the WKCE or MAP to assess learning in a calculus or British Literature class

Setting Growth Goals

- What is a reasonable growth target for a "gifted" or already advanced student?
- I have absolutely no idea. It depends...

Growth Dependent Factors

- · Current level of mastery
- Level of grade-level instruction
- · Level of teacher differentiation and challenge
- Opportunity for curriculum delivery that might reasonably result in growth
- Lots of students factors...

What would I do?

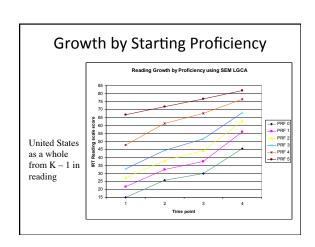
- In content areas in which you have MAP scores:
- Start with the MAP growth target and then revise (likely down but could be up) based on the services that will be provided to the student.

Example

- Bobby is in 4th grade.
- He scored a 224 on MAP reading
 - Grade level is a 206
 - 224 is between 7th and 8th grade level
- MAP mean growth projection for a 4th grader in reading at his school is 8pts
- So what should Bobby's growth target be for your SLO?

Bobby – Scenario 1:

- Bobby remains in the 4th grade classroom where he received "grade-level" instruction (based on CCSS) plus his teacher's differentiation efforts.
- · How much growth should we expect?
 - None?
 - Wrong!



Bobby – Scenario 2:

- Bobby works once a week with a gifted resource teacher while at the same time receives more advanced materials and books form his classroom teacher.
- How much growth should we expect?

Growth Goals

- Should be based on:
- Prior level of demonstrated performance
- The goals and learning outcomes of the class or program into which the student will be placed
 - Then align that content with MAP or assessment outcomes