

What is the Role of Assessment in Improving Teaching & Learning in Schools?

Dr. Carla Evans, Senior Associate
Center for Assessment (cevans@nciea.org)

Keynote Address – September 5, 2024 MAST Kickoff Summit - Montana



An Analogy

This evidence is what I use to step back and ask myself:

- Am I getting closer to meeting my goals or am I getting further away?
- And what do I need to do to adjust so I can meet my goals?



Connecting the Dots

- The scale provides me with evidence, but it is not the treatment or the intervention. The treatment or intervention is diet and exercise.
- Similarly, formal assessment provides evidence but is not the treatment or intervention.
- Good instruction and learning are the treatment and intervention in schools.



What Supports and Improves Instruction and Learning in Schools from the Research Literature?



Three Ways to Support Good Instruction and Learning in Schools





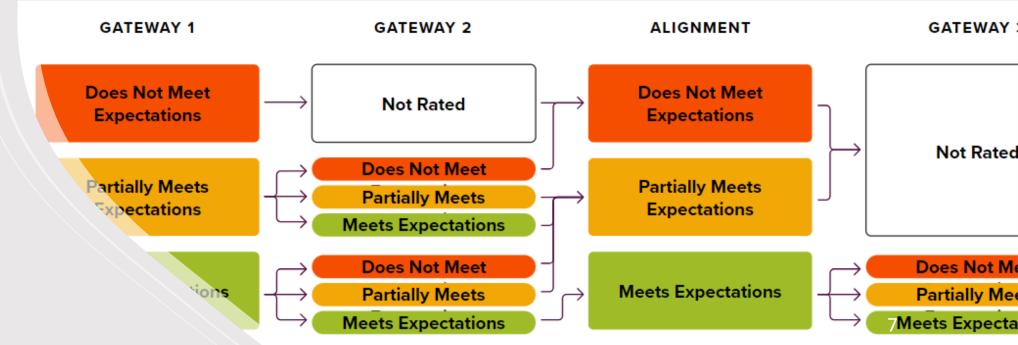
High-Quality Curriculum & Instructional Materials (HQIM)

- Ensure more equitable instruction
- Bring concrete coherence to the classroom
- Actively improve a teacher's pedagogy through their use

For a related reading, see Polikoff, M. (2021). Beyond standards: The fragmentation of education governance and the promise of curriculum reform. Harvard Education Press.

https://edreports.org

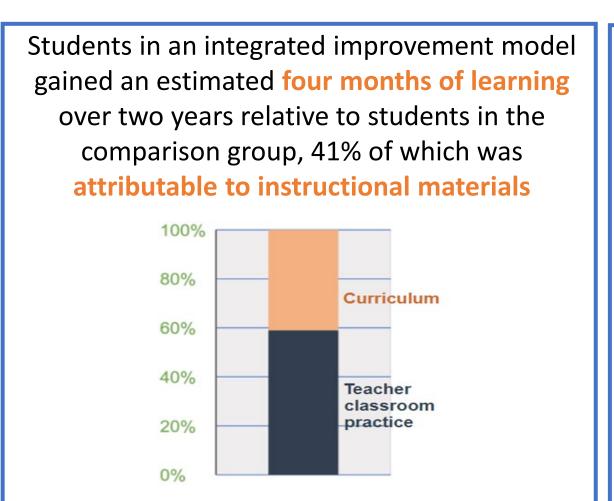


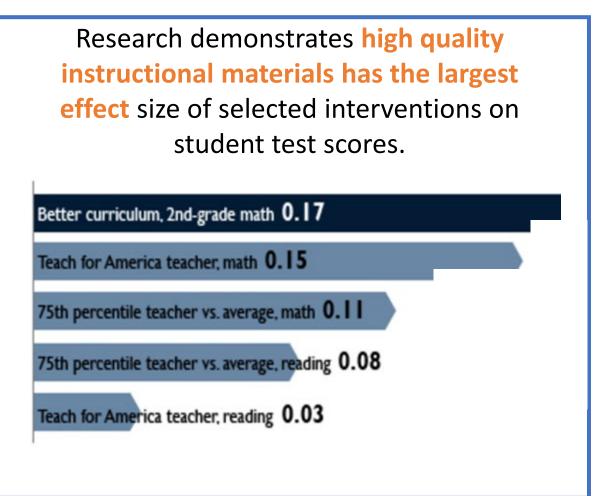


Research demonstrates HQIMs matter to student



outcomes





Source: 1) Joseph A. Taylor et al., "An Efficacy Trial of Research-Based Curriculum Materials with Curriculum-Based Professional Development," American Educational Research Journal, 2015, 2) Matthew Chingos and Grover "Russ" Whitehurst, "Choosing Blindly: Instructional Materials, Teacher Effectiveness," Brookings Institution, 2012

But teachers are often creating their own materials





TEACHERS SPEND 7-12 HOURS PER WEEK

searching for and creating instructional resources (free and paid),⁸ drawing from a variety of sources, many of them unvetted.

https://edreports.org/impact/why-materials-matter#s05

See also: Silver, D. (2021). A Theoretical Framework for Studying Teachers' Curriculum Supplementation. In *Review of Educational Research* (Vol. 92, Issue 3). https://doi.org/10.3102/00346543211063930; Kaufman, J. H., Tosh, K., & Mattox, T. (2020). *Are U.S. Teachers Using High Quality Instructional Materials?* https://doi.org/10.7249/RR2575.11-1.

In the most recent 2022-23 Survey of American Instructional Resources, RAND found that above all other curriculum materials, teachers are creating their own once a week or more, on average, based on the following percentages:

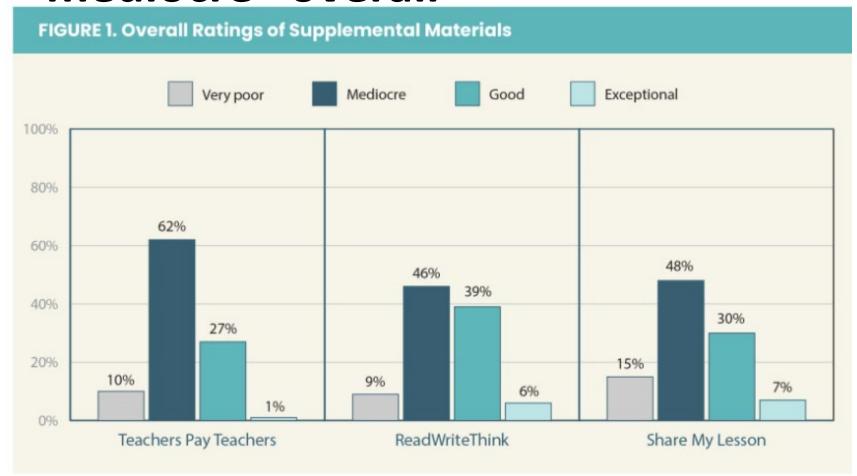
N AND LABOR	About * RAND Campaign Press Room Careers RESEARCH * LATEST INSIGHTS * POLICY EXPERTS * CAPABILITIES * GRADUATE SC	НОС		
n and Labor	RAND / Education and Labor / Research Projects /			
	RAND American Instructional Resources	Т		
ps	Survey (AIRS) Project			
ties	Through the American Instructional Resources Survey (AIRS), RAND is investigating the use of instructional Resources Survey (AIRS), RAND is investigating the use of			
ts anels	instructional materials in K–12 English language arts, mathematics, and science classrooms across the			
and Workers	United States. AIRS is intended to examine the factors related to the use of standards-aligned curricula, and how curriculum use and supports for curriculum use are related to teaching. The AIRS			
ers	project has been made possible through generous support from the Bill & Melinda Gates Foundation,			
	the Charles and Lynn Schusterman Foundation, and the Overdeck Family Foundation.	A S		

Recent Findings

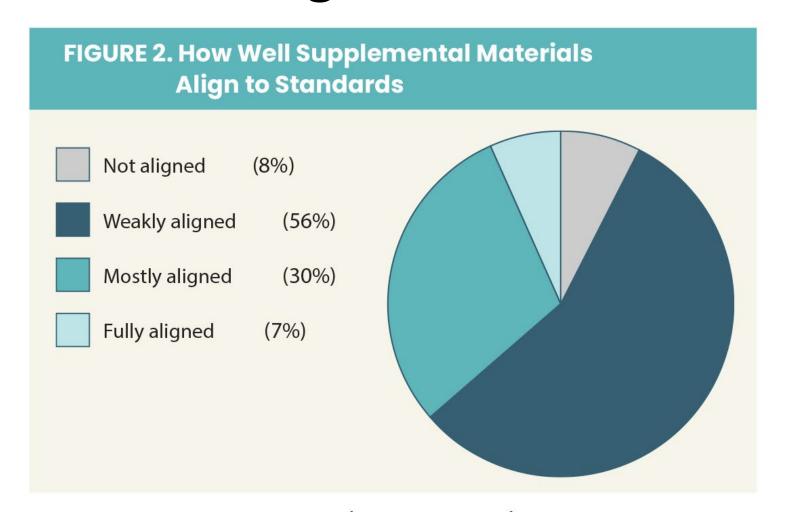
	Elementary	Middle	High School
ELA	37%	56%	72%
Math	22%	50%	54%
Science	34%	57%	65%



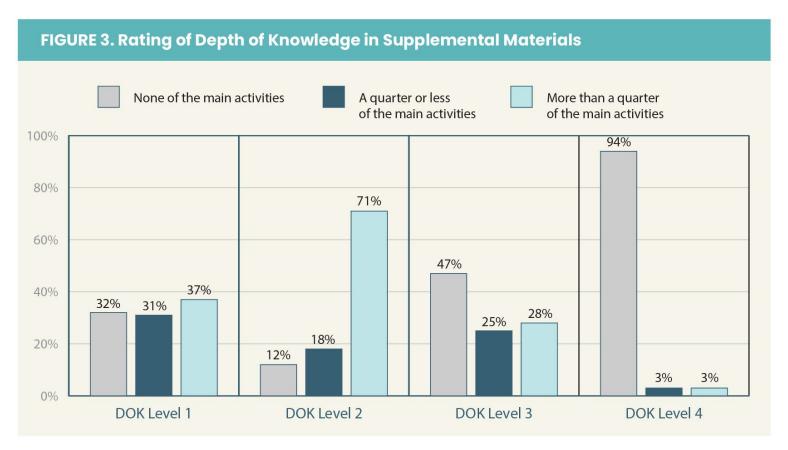
Yet teacher developed materials are often "mediocre" overall



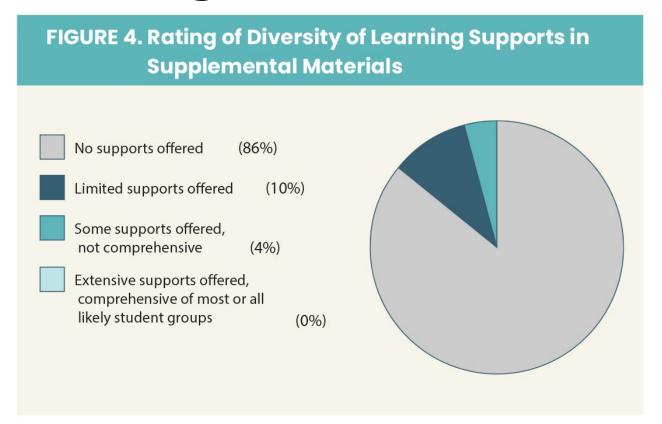
Not well-aligned to standards



Focused on fact recall and procedural knowledge and skill



And do not offer teachers support for teaching diverse learners





Tangible Ways to
Support High-Quality
Instructional Materials
Implementation

Use EdReports to evaluate the quality of your curriculum materials ideally before you purchase them.

Explain to teachers why HQIM are important and **why to minimize curriculum supplementation** from the internet.

Ask teachers to implement the curriculum provided to them with integrity (notice I did not say fidelity) and hold them responsible for doing so through frequent informal observations and conversations.



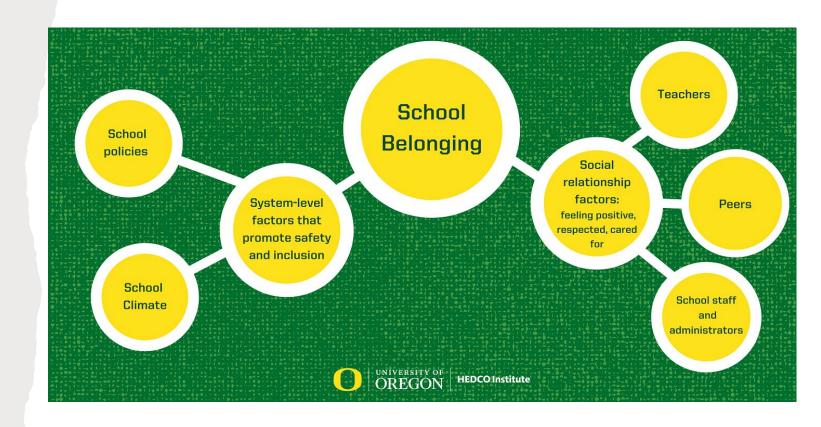
Three Ways to Support Good Instruction and Learning in Schools





Sense of Belonging:

A student's feeling of identity, inclusion, and acceptance as a member of their school community.



Definition taken from: https://www.oregon.gov/ode/educator-resources/assessment/Documents/SEED Survey Preliminary Specifications and Blueprints.pdf

Image taken from: https://hedcoinstitute.uoregon.edu/blog/3/what-school-belonging



Some Examples

- I have friends at school
- My classmates care about me
- There are adults at my school who are like me and my family
- I feel welcome at my school
- There are adults at my school who care about me
- I feel safe talking with adults at my school
- I feel safe talking with students at my school
- I have classmates who are like me and my family



There is an increasing number of students worldwide who report not feeling a sense of belonging to their school.



Allen et al., (2021). Impact of School-Based Interventions for Building School Belonging in Adolescence: A Systematic Review. Educational Psychology Review, 34, 229-257, https://doi.org/10.1007/s10648-021-09621-w



Why Is Belonging Important?

A student's sense of belonging predicts a wide variety of educational and developmental outcomes.



Sense of belonging has a meaningful association with psychological constructs (e.g., motivation, behavior, social-emotional competencies), health domains (e.g., mental health, high-risk substance use) and academic outcomes (e.g., attendance, achievement, high school graduation).

Korpershoek, H., et al. (2020). The relationships between school belonging and students' motivational, social-emotional, behavioral, and academic outcomes in secondary education: A meta-analytic review. Research Papers in Education, 35(6), 641-680. https://doi.org/10.1080/02671522.2019.1615116

Rose, I. D., et al. (2022). The relationship of school connectedness to adolescents' engagement in co-occurring health risks: A meta-analytic review. The Journal of School Nursing, 40(1), http://dx.doi.org/10.1177/10598405221096802

Oregon Department of Education (2023). Student Sense of Belonging in Schools: Connection to Outcomes [Results from Statewide SEED Survey]. https://www.oregon.gov/ode/educator-resources/assessment/Documents/SenseofBelongingOutcomes.pdf





And There Is Good News...

Sense of belonging is malleable, which means it can be improved in schools!

Educators can help students feel a stronger sense of belonging in how the school learning environment is set up.

• Teacher support was one of the strongest predictors of school belonging in Allen et al.'s (2018) meta-analysis.

Allen, K., et al. (2018). What schools need to know about fostering school belonging: A meta-analysis. Educational Psychology Review, 30, 1-34. https://doi.org/10.1007/s10648-016-9389-8





There are many ways to foster a school culture and climate where all students feel welcome and cared for. For example:

Create space for identity: Provide opportunities for students to share their identities and experiences.

Greet students: Greeting students at the door can set a positive tone and help them feel invested in their learning.

Establish norms: Work together with students to create classroom norms and expectations.

Celebrate diversity: Help students understand and respect differences.

Build relationships: Positive teacher-student relationships are a key aspect of quality teaching and can encourage students to participate.

Embrace different perspectives: Encourage students to express different views and share their ideas.

Collaborate with families: Work closely with families to help children develop a sense of belonging.



Three Ways to Support Good Instruction and Learning in Schools







Plane Analogy







Summative

scores, or reports.

Teachers use classroom summative assessments such as end-of-unit tests to "sum up" what students have learned about a particular set of content standards to that point in time. This information is then communicated to students and parents typically using grades,

Formative

Teachers and students use sets of formative assessment practices to adjust and modify their instruction or learning strategies during a unit of instruction. The feedback *makes student thinking* visible and occurs daily and weekly to support student learning.

Black, P., & Wiliam, D. (2009). Developing the theory of formative assessment. *Educational Assessment, Evaluation and Accountability*, 21(1), 5–31. https://doi.org/10.1007/s11092-008-9068-5

Council of Chief State School Officers. (2018). Revising the Definition of Formative Assessment (p. 2). https://ccsso.org/resource-library/revising-definition-formative-sassessment



Not This, But That...

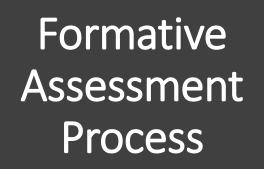
Formative assessment is <u>not</u> a "thing". It is <u>not</u> an exit ticket, quiz, item bank, etc.

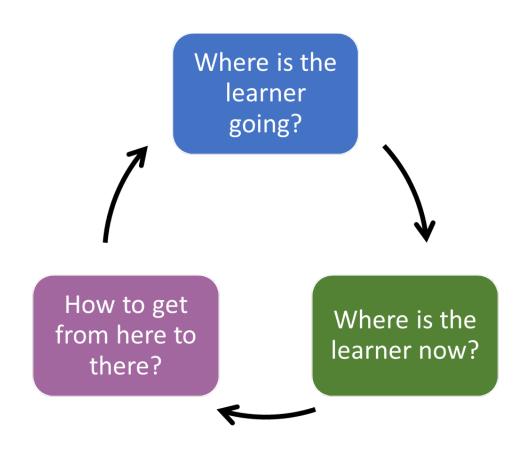
Formative assessment is a process that involves sets of practices teachers and students employ.

Formative assessment is <u>not</u> scored or graded.

Formative assessment provides qualitative feedback about where and how to improve.



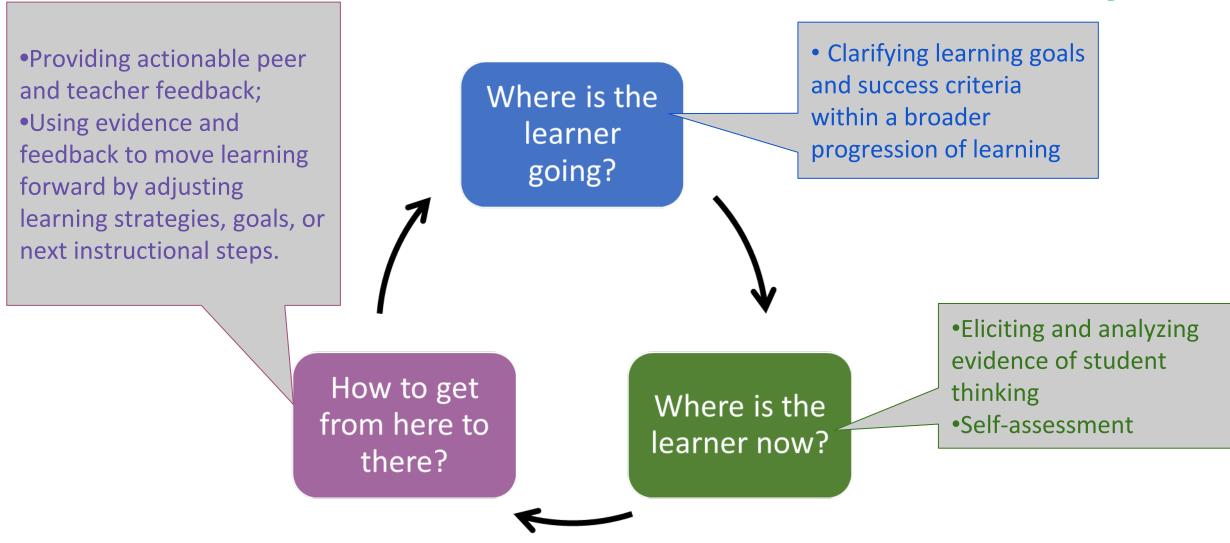




Wiliam, D. (2018). Embedded formative assessment (2nd ed.). Solution Tree Press.

Heritage, M. (2010). Formative assessment: Making it happen in the classroom. Corwin.





Wiliam, D. (2018). Embedded formative assessment (2nd ed.). Solution Tree Press.

Brookhart, S. M. (2010). Formative assessment strategies for every classroom (2nd ed.). ASCD.



Tangible Ways to
Support High-Quality
Formative Assessment
Implementation

Make formative assessment the focus of leadership and peer-to-peer walk-throughs (see Walk-Through Protocol).

Make formative assessment the focus of grade level, departmental, or common planning meetings (see <u>Teacher PLC Protocol</u>).

Make formative assessment practices the focus of professional learning.

Both Protocols and Other Formative Assessment Professional Learning Materials Available here: https://sites.google.com/view/rvusd/home (all open source)

In Closing....

- You are embarking on a new year with a new state assessment. This is exciting!
- Just remember: MAST will not fix the problem. It is an outcome measure.
- The treatment or intervention in schools for improving student achievement is good instruction and learning.





Three Ways to Support Good Instruction and Learning in Schools





Thank you!



www.nciea.org