



Preparing for Successful Math Instructional Materials Implementation: Lessons Learned

January 31, 2024 | 1 pm PT

TECH TIPS



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The **recording, slides & resources** will be sent by email

Today's Panelists



Morgan Sheppard

Program Manager,
Strategic Initiatives
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Allison Carter

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Shannah Estep

Managing Director,
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EdReports



Francisco Villegas

Senior Vice President of
School Transformation
**The Partnership for
Los Angeles Schools**

Webinar Objectives

- Learn about the development of CalCurriculum’s adapted Hexagon Tool
- Discuss takeaways and insights from a recent study report about math instructional materials implementation
- Explore necessary steps to guide the development of your district’s implementation process.

Agenda

- Welcome & Introductions
- Hexagon Tool Overview
- Case Study Report Panel Discussion
- Q&A

What is CalCurriculum?

CalCurriculum is a joint project of EdReports and UnboundEd developed and tailored to support California educators. Our goal is to help districts adopt and implement high-quality instructional materials by providing independent reviews, actionable resources, and guidance tailored to the California context.



Setting the Stage for our Pilot

2014 Adoption List



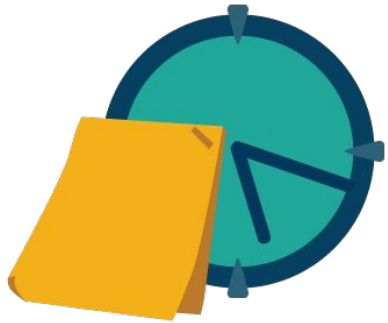
California's Math Journey: Looking Back

2010 Standards

2013 Framework

What are the stakes?

Students have had inconsistent access to high-quality content*



In a single school year, the average student spent **581 of 720 available hours** on assignments that were **NOT high-quality**.

This was particularly significant for **students of color** and **students experiencing poverty**, who **have less access** to high-quality, standards-aligned materials than their peers.

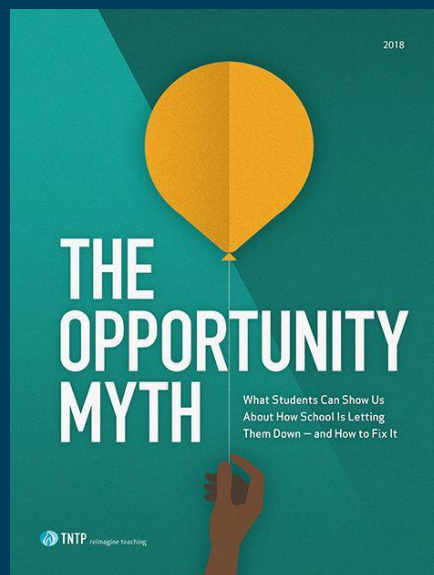
The Opportunity Myth, TNTIP 2018



“ When students who started the year behind had greater access to grade-appropriate assignments, they closed the outcomes gap with their peers by more than seven months. ”

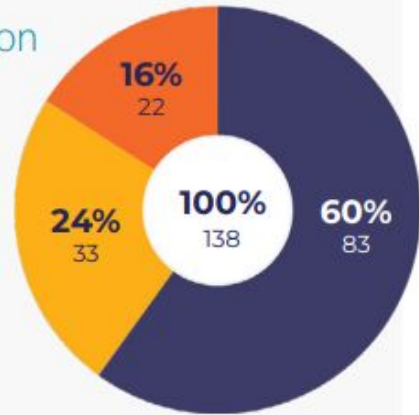
- *The Opportunity Myth*, TNTP 2018

This report illustrated that **teachers using aligned materials** engaged students in mathematical practices at a **significantly higher rate** than teachers who did not have access to aligned curriculum.



What is the state of middle school math instructional materials in California?

California District Selection of 2014 State-Adopted Curricula for Middle School Math



○ 100%
Total districts with data (138)

● 60%
Districts with current selections *only* from the 2014 Mathematics Adoption list (83)

● 24%
Districts with *no* current selections from the 2014 Mathematics Adoption list* (33)

● 16%
Districts with current selections of *both* state-adopted and off-list products (22)

76% of districts still have **products from the 2014 list** in place

40% of districts have a **current selection of off-list curricula**


-K-8 Math Curriculum Landscape: Spotlight California, The Center for Education Market Dynamics, Fall 2023



California's Math Journey: Continued

2023 Math Framework

Today



As districts continue to make greater shifts toward adopting high-quality instructional materials, a significant question remains:

What does it take to implement these materials successfully, so that they have their intended impact?

Pilot Project Goals



1

Develop a **tool** that can be used both during a team's adoption process, looking ahead toward implementation planning, or during implementation, to assess progress and areas for improvement.

2

Study the degree to which select programs have been feasible to implement and the conditions that enable successful instructional materials implementation through a **set of case studies**

Fall 2022: Implementation Interviews

We started our process by interviewing 10 internal staff with experience in math instructional materials adoption & implementation to learn more about:

- a **framework** that would allow us to assess the “ease of implementing” instructional materials
- the **key criteria** that affect instructional materials implementation experiences, and
- the **format/structure of a tool** that could be useful to district and charter leaders

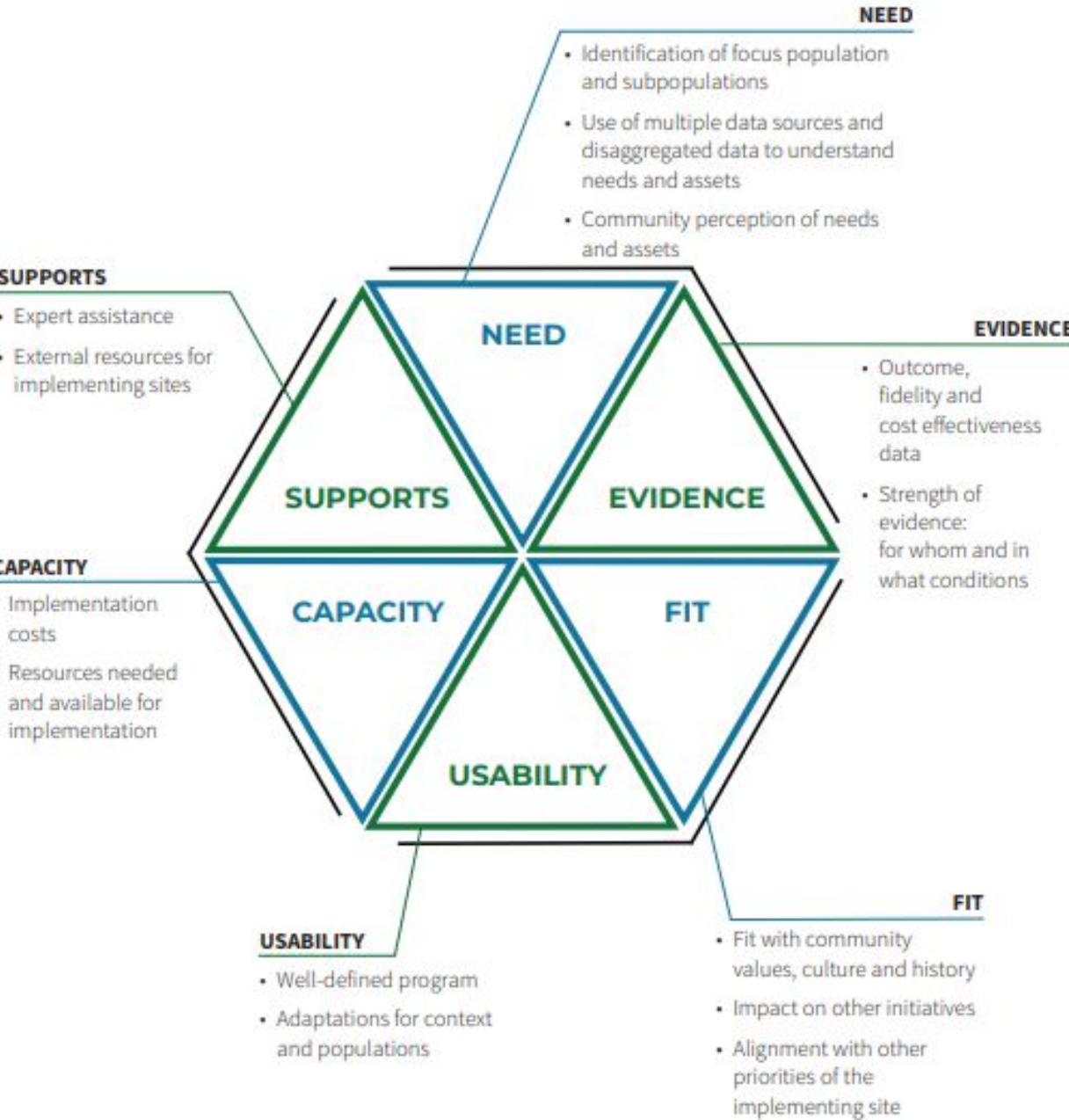
Fall 2022: Implementation Interviews

We asked these 10 leaders:

1. In your experience, what has been the easiest / most difficult curriculum to implement? Why?
2. What criteria have you observed affect a district/school's success with implementation? What kinds of questions do you think they need to be asking to assess this?
3. What format/structure of a tool do you think would be most helpful to district / school leaders?

The Hexagon: An Exploration Tool

The Hexagon can be used as a planning tool to guide selection and assess the fit and feasibility of potential programs and practices for use. It includes three **program indicators** and three **implementing site** indicators.

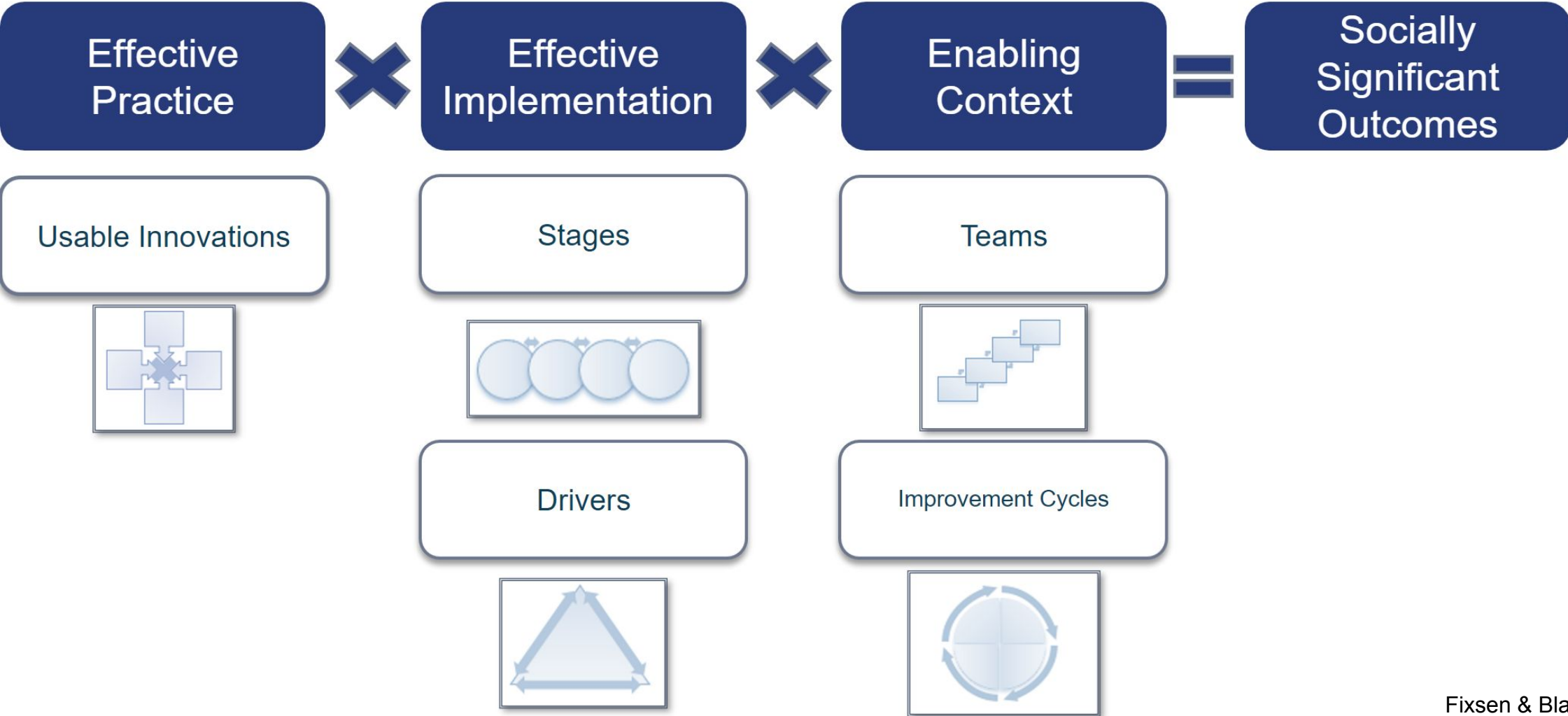


The National Implementation Research Network's Hexagon Discussion & Analysis Tool



The Hexagon Tool

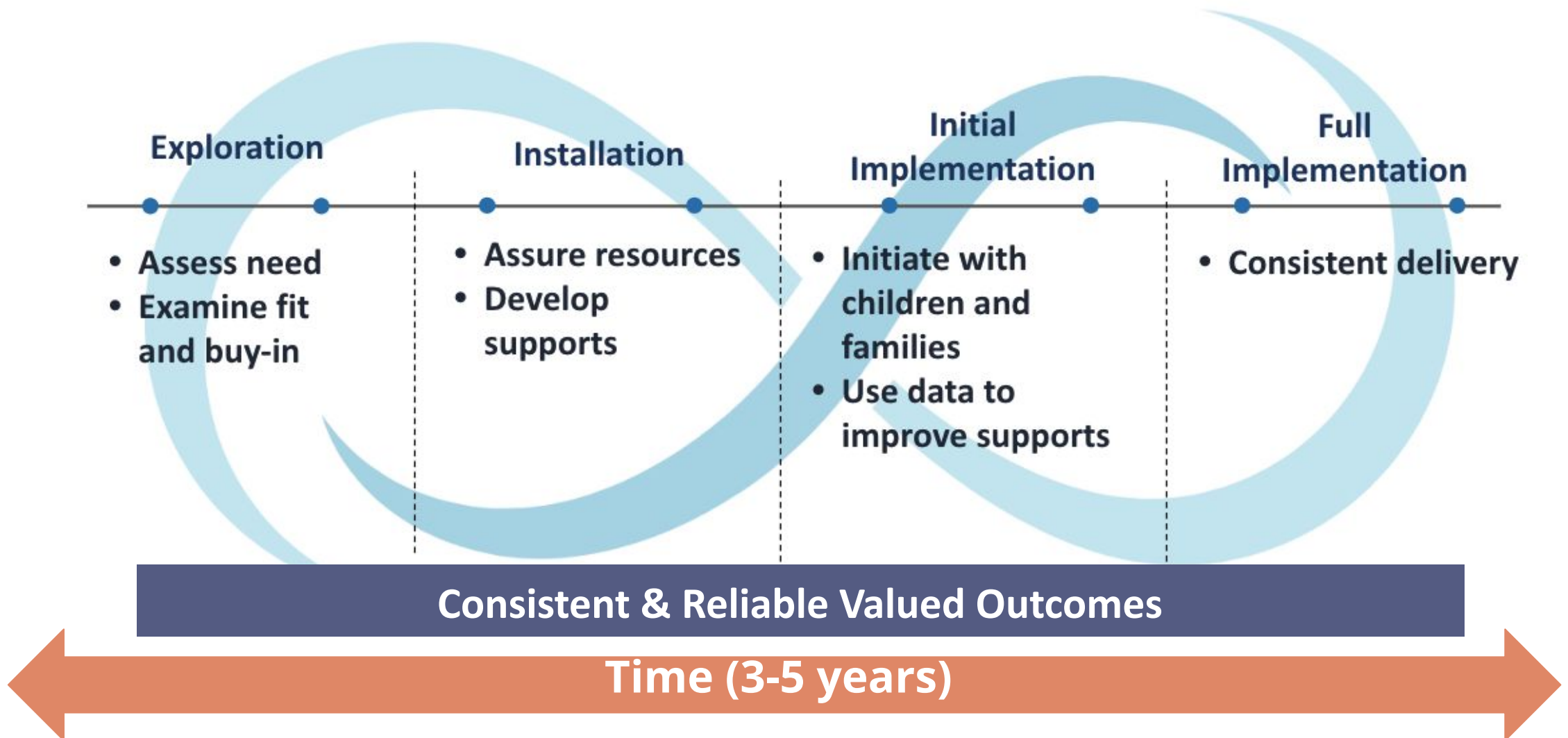
Active Implementation Formula & Frameworks



Fixsen & Blase, 2020



Implementation Stages

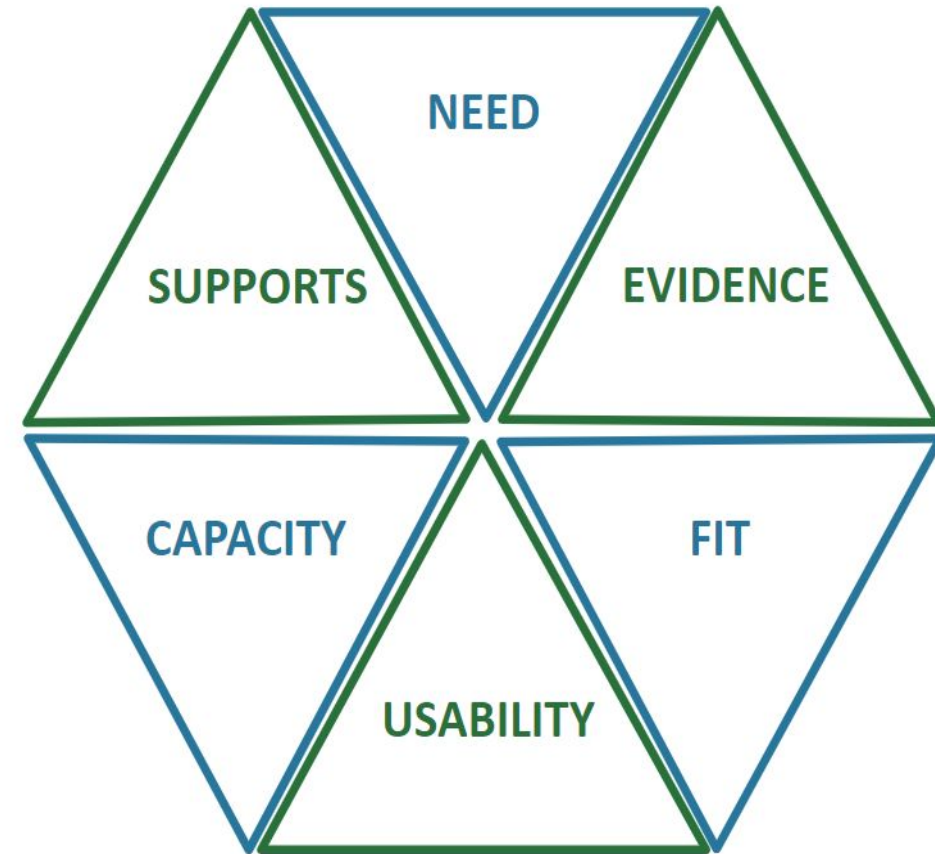


Metz et al., 2015; Proctor et al., 2011



The Hexagon Tool

- Developed for use in implementation informed assessments
- For use by organizations and communities
- Reviewed and edited by the Racial and Ethnic Equity and Inclusion Team (REEI)



Adapted from Blase, K., Kiser, L., and Van Dyke, M., 2013



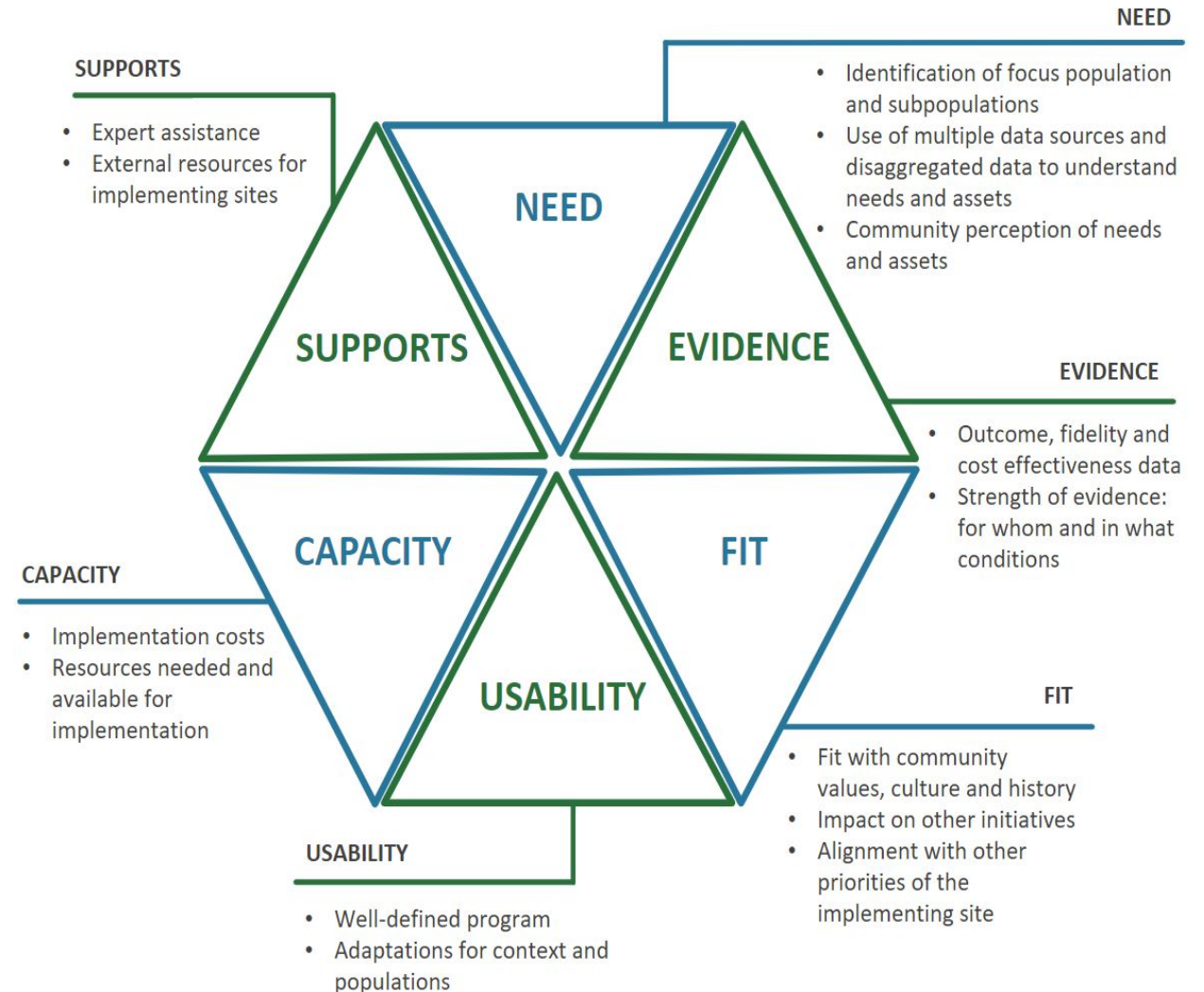
The Hexagon Tool

Implementing Site Indicators

- Need
- Fit
- Capacity

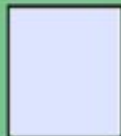
Program Indicators

- Evidence
- Usability
- Supports



Program Indicator SUPPORTS

RATING



1. Is there a qualified “expert” (e.g., consultant, program developer, intermediary, technical assistance provider) who can help with implementation over time? If yes, list names and/or organization (e.g. Center, University) and contacts.
2. Are there start-up costs for implementation of the program or practice (e.g., fees to the program developer)? If yes, itemize in notes section. What does the implementing site receive for these costs?
3. Are there curricula and other resources related to the program or practice readily available? If so, list publisher or links. What is the cost of these materials? Enter in notes section.
4. Is training and professional development related to this program or practice readily available? Is training culturally sensitive? Does it address issues of race equity, cultural responsiveness or implicit bias? Include the source of training and professional development. What is the cost of these materials? Enter in notes section.
5. Is coaching available for this program or practice? Is coaching culturally sensitive? If so, list coaching resources and cost in notes section.
6. Are sample job descriptions and interview protocols available for hiring or selecting new staff for this practice? If so, identify here and any costs associated.
7. Is guidance on administrative policies and procedures available? If so, identify resources and any costs associated.
8. Are there resources to develop a data management plan for this program or practice (including data system and monitoring tools) available? If so, identify resources and any costs associated.
9. Is there a recommended orientation to facilitate “buy-in” for staff, key stakeholders and collaborative partners? If so, explain/describe briefly in notes section.

Ratings

5 Well Supported

Comprehensive resources are available from an expert (a program developer or intermediary) to support implementation, including resources for building the competency of staff (staff selection, training, coaching, fidelity) and organizational practice (data system and data use support, policies and procedures, stakeholder and partner engagement.)

4 Supported

Some resources are available to support implementation, including limited resources to support staff competency (e.g., training and coaching) and limited resources to support organizational changes (e.g., data systems)

3 Somewhat Supported

Some resources are available to support competency development or organizational development but not both

2 Minimally Supported

Limited resources are available beyond a curriculum or one time training

1 Not Supported

Few to no resources to support implementation

Additional Questions/Notes





Adapting the Hexagon Tool

Fall 2022: Implementation Interviews

We started our process by interviewing 10 internal staff with experience in math instructional materials adoption & implementation to learn more about:

- a **framework** that would allow us to assess the “ease of implementing” instructional materials
- the **key criteria** that affect instructional materials implementation experiences, and
- the **format/structure of a tool** that could be useful to district and charter leaders

Initial Adapted Tool

Implementing Site Indicator: Fit

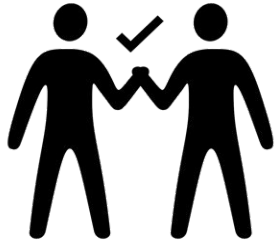
1. How does the curriculum fit with current priorities of the implementing site, including instructional vision and pedagogical approach and stances? Is there a recommended orientation or plan to facilitate buy-in for staff, key stakeholders and collaborative partners? If so, explain/describe briefly in notes section.
2. How does the curriculum fit with family and community values and assets in the impacted community, including the values of racially, ethnically, culturally and linguistically specific populations?
3. How do the instructional materials fit with the needs of the student population? Is it culturally and linguistically responsive to the focus population's needs?

Blue text = question language we added based on interview feedback

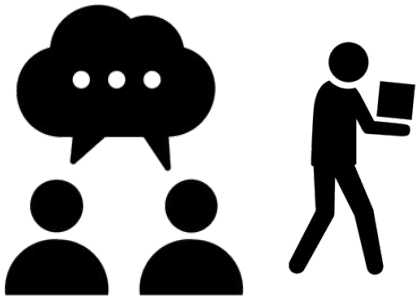
Orange text = Hexagon overlapped with interview feedback

Black text = Hexagon question in its original wording

Project Roles



CalCurriculum - Lead project, including tool adaptation, Testing Group, Advisory Council, focus groups and report write-up



Testing Group - Tried out the tool and focus group interview protocol through sharing about adoption scenarios and implementation experiences of their own



Advisory Council - Provide project oversight and input

Advisory Council

Internal / External Org	Role	District/System	School Leader	Teacher
UnboundEd	Vice President, Mathematics	X	X	X
CORE Learning	Director of Mathematics	X		X
CORE Learning	Program Manager, Math Team	X		X
CORE Learning / UnboundEd	Vice President, Curriculum Services	X		X
CORE Learning / UnboundEd	Program Manager, Curriculum Services	X	X	X
CA District	K-12 Math Specialist / TOSA	X		X
CA District / Nonprofit	Senior Vice President of School Transformation	X	X	X
CA Charter Management Org	Executive Director	X	X	X
Across districts	Math Adoption & Implementation Consultant	X	X	X

Testing Group

LEA, Location	Role	District/System	School Leader	Teacher
CA District	Math Instructional Coach	X		X
CA District	STEM Coordinator	X	X	X
CA District	K-8 Math TOSA	X		X
CA District	Math Instructional Coach	X	X	X
CA District	Math Instructional Coach	X	X	X
CA Charter Management Org	Math Academic Program Manager	X	X	X
CA Charter Management Org	Director of Math Programs	X	X	X
CA Charter Management Org	Math Teacher		X	X
Across districts	CORE Math Consultant	X	X	X
Across districts	CORE Math Consultant	X		X
Across districts	CORE Math Consultant	X		X

Adaptation for CalCurriculum

Implementing Site Indicator: Fit

1. How does the curriculum fit with current priorities of the implementing site, including instructional vision and pedagogical approach and stances? Is there a recommended orientation or plan to facilitate buy-in for staff, key stakeholders and collaborative partners? If so, explain/describe briefly in notes section.
2. How does the curriculum fit with family and community values and assets in the impacted community, including the values of racially, ethnically, culturally and linguistically specific populations?
3. How do the instructional materials fit with the needs of the student population? Is it culturally and linguistically responsive to the focus population's needs?

Role	District/System	School Admin	Teacher
Math Instructional Coach	X		X
STEM Coordinator	X	X	X
K-8 Math TOSA	X		X
Math Academic Program Manager	X	X	X
Director of Math Programs	X	X	X
Math Teacher			X
CORE Math Consultant	X	X	X

Adapt tool with focus on instructional materials adoption and implementation



Try out tool with 11 different adoption scenarios, Advisory Council + internal feedback



Finalize adapted tool based on feedback

System Indicator
NEED

Rating



Ratings

When scoring in the Need section, the focus of this rating is on to what extent the system team has deeply investigated their data and the needs of key stakeholders to understand the priorities for the district or charter context.

5 - Strong Understanding of Need

The Local Education Agency (LEA) has demonstrated a comprehensive understanding of the needs of the focus population in relation to instructional materials. The LEA has included three or more data sources when conducting the needs assessment, including student achievement data and perspectives of staff, students, and families, and has disaggregated data to identify needs of specific and relevant subpopulations.

4 - Adequate Understanding of Need

The LEA has demonstrated an understanding of the needs of the focus population in relation to instructional materials. The LEA has included two or more data sources when conducting the needs assessment, including student achievement data and perspectives of staff, students, and families, and has disaggregated data to identify needs of specific and relevant subpopulations.

3 - Some Understanding of Need

The LEA has demonstrated some understanding of the needs of the focus population in relation to instructional materials. The LEA has included two or more data sources when conducting the needs assessment, including student achievement data, but has done limited stakeholder needs assessment and/or has not disaggregated these data.

2 - Minimal Understanding of Need

The LEA has demonstrated minimal understanding of the needs of the focus population in relation to instructional materials. The LEA has included only student achievement data when conducting the needs assessment and has not disaggregated these data.

1 - No Understanding of Need

The LEA has not demonstrated an understanding of the needs of the focus population in relation to instructional materials.

Use Case: Adoption Scenario

A district is going through the adoption process and has narrowed down to their final options. This will prompt them to consider what implementation would look like for their context. Based on this, they can decide:



We can manage a successful implementation with our current context



This is going to be too difficult for us to implement and it would not be successful



This will take some changes that we now have in mind, and want to move forward planning for those changes

“I wish that I had this tool six months ago - if we’d gone through some of these questions, I think it would have altered what we chose to pilot this fall.”


-Testing Group District Leader


“This tool is amazing - I already sent a copy of this to a teammate I’m working with to lead our adoption process because these questions are so important to think about.”


-Testing Group District Leader

Use Case: Implementation Scenario

A district is in the midst of implementation and wants to evaluate how it's going. This will prompt them to consider each of the tool's indicator domains for their current materials. Based on this, they can decide:

 Implementation is going quite successfully in the current set-up

 These were perhaps not the right materials for our context, and we need to consider some major changes for our system

 To improve implementation, there are some key areas we can consider adjusting to be more successful

“Sometimes we get so focused on high-quality resources. But how are we implementing those high-quality resources? And are we providing the teachers the tools and the support that they need to make the necessary changes in their instruction to better meet the needs of students?”



Kevin Dykema, President of the National Council of Teachers of Mathematics



The Case Studies Report

Case Studies Project Goal

To study and share learnings on the conditions for successful instructional materials implementation and the degree to which select programs have been feasible to implement across a variety of LEA profiles.

In order to do this, we interviewed teams from districts and charters across California to share their implementation experiences with middle school math instructional materials, and published a set of anonymous case studies about their best practices and lessons learned from these implementation experiences.

Adaptation for Case Studies

Program Indicator: Evidence and Impact

Guiding Questions

- What data was reviewed or evaluated to assess evidence of effectiveness (ex. alignment to standards with appropriate depth and rigor; demonstrated impact on student learning) prior to adoption?
 - Has EdReports reviewed this set of instructional materials (from the same publication year as when adopted)? Was it considered in adoption? If it has been reviewed, provide details of the report scores.
 - Was there evidence or data available prior to adoption to demonstrate the ability of this set of instructional materials to support the needs of priority subgroups for your context from internal or external criteria?
- What has the data signaled to date as to the impact of this implementation (such as student achievement data, student work data, or implementation fidelity as measured by classroom observations, common planning time routines, etc.)?
- What advice would you offer to others in relation to this indicator? Or, if you could go back and implement this again, would you do anything differently in relation to this indicator?

Ratings

5 - High Evidence and Impact

The instructional materials have **demonstrated strong evidence of effectiveness based on implementation data to date, and had strong evidence of effectiveness based on external review** (ex. EdReports "Meets Expectations" score on the first two gateways).

4 - Evidence and Impact

The instructional materials have demonstrated **evidence of effectiveness based on implementation data to date for most staff, sites, or student groups**.

3 - Some Evidence and Impact

The instructional materials show **emerging evidence of effectiveness based on implementation data to date for some staff, sites, or student groups, and had evidence of effectiveness based on external review** (ex. EdReports "Meets Expectations" score on the first two gateways).

2 - Minimal Evidence and Impact

The instructional materials show **minimal evidence of effectiveness based on implementation data to date, and had limited evidence of effectiveness based on external review** (ex. EdReports score of "Partially Meets" on the first or second gateway).

1 - No Evidence or Impact

The instructional materials **do not have any evidence of effectiveness** (ex. No demonstrated impact or received an EdReports score of "Does Not Meet" in the first gateway for alignment).

Role	District/System	School Admin	Teacher
Math Instructional Coach	X		X
STEM Coordinator	X	X	X
K-8 Math TOSA	X		X
Math Academic Program Manager	X	X	X
Director of Math Programs	X	X	X
Math Teacher			X
CORE Math Consultant	X	X	X

Case Study 1: Houghton Mifflin Harcourt's Go Math! California Edition (2015) at a Very Large District



Local Education Agency (LEA) Facts

Grade Span: TK-12
Size: Very Large

Implementation Facts

Grades Using These Materials: 6-8
Years Implementing These Materials: 8

Ratings at a Glance (1=Lowest Rating, 5=Highest Rating. See Appendix for details)

Need	1	Usability	2
Evidence & Impact	2	Capacity	4
Fit	1	Supports	2

**The first year of implementation for these materials was the 2016-17 school year. Focus group participants included staff who have been with the district since the prior adoption and had direct experience with the prior adoption and implementation. The district is now preparing for its next adoption cycle.*

System Indicator
NEED

Rating **1**

Rationale: This adoption took place in 2015-16, after California adopted the Common Core State Standards (CCSS) in 2010, so the focus of the adoption was finding materials to align to the new standards. While district and school leaders stated that they felt their standardized test scores

Adapt tool to be a retrospective focus group protocol



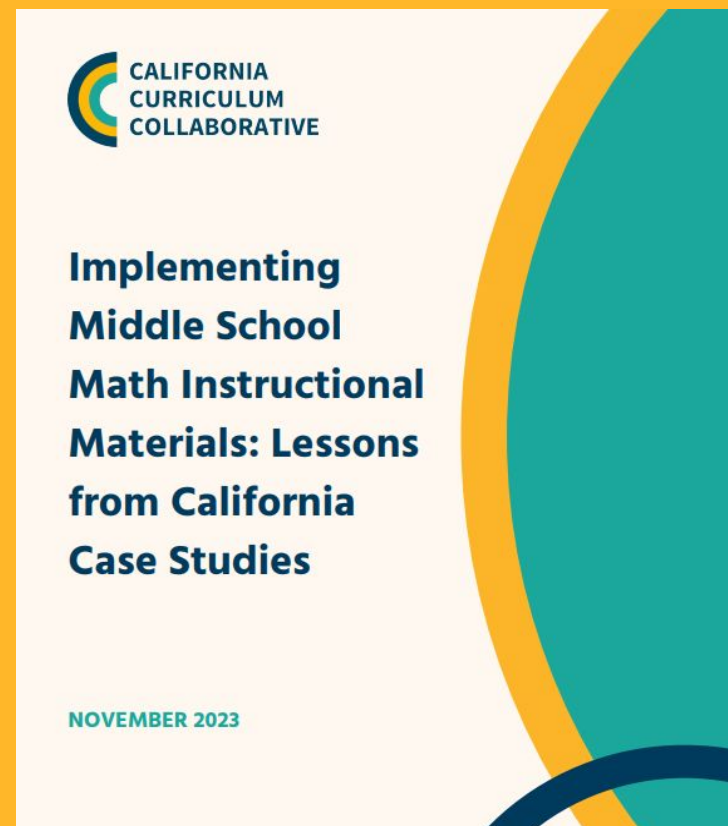
Try out focus group protocol with 22 implementation experiences



Write up case studies based on focus group discussions

Implementing Middle School Math Instructional Materials: Lessons from California Case Studies

CalCurriculum
November 2023



Our Case Studies

	Case Study 1	Case Study 2	Case Study 3	Case Study 4
Instructional Materials	Houghton Mifflin Harcourt's Go Math! California Edition (2015) <i>*2014 List</i>	Open Up Resources' 6-8 Math (2017) and Kendall Hunt's Illustrative Mathematics (2019) <i>*Off-List</i>	Open Up Resources' 6-8 Math (2017) <i>*Off-List</i>	Curriculum Associates' Ready Mathematics (2017) and iReady Classroom Mathematics (2021) <i>*Off-List</i>
LEA Facts	Very Large District <i>40,001+ students</i>	Mid-Size CMO <i>1,000-10,000 students</i>	Small CMO <i>6-1,000 students</i>	Large District <i>10,001-40,000 students</i>
Years Implementing	8 years	7 years	5 years	5 years

Case Studies Panel Discussion



Allison Carter

Vice President,
Curriculum Services
CORE Learning



Shannah Estep

Managing Director,
Adoption & Innovation
EdReports



Francisco Villegas

Senior Vice President of
School Transformation
**The Partnership for
Los Angeles Schools**

“

The takeaways of the case studies are twofold: **It is important to ensure that LEAs are adopting high-quality instructional materials** and that there are plans and structures put in place to launch and support ongoing implementation of the materials.

”



Implementing Middle School Math Instructional Materials: Lessons from California Case Studies

NOVEMBER 2023

Questions & Answers



Additional Questions?

Contact:
morgan.sheppard@unbounded.org

ARCHIVE RESOURCES

Focus Group Setup: Addressing Power Dynamics

We approached setting the foundation for our focus groups with:

1. Focus Group Agreements
 - Be fully present and engaged
 - Speak from the “I” perspective
 - Monitor airtime
 - Allow for multiple narratives
2. Discussion of supportive moves for remote group discussions, with attention to power dynamics and how that affects narratives

Scoring Consensus & Disagreements

We approached scoring for each indicator through a (1) waterfall share, (2) discussion, and then (3) consensus process.

Disagreements could result in two possible scenarios:

1. After further discussion, the group aligned on a score that they felt best represented the LEA as a whole
2. The group could not align, and there were at least two distinct perspectives

Regardless of outcome, the case study presents the scores and takeaways of the LEA team.

Advisory Council Members



Rolanda Baldwin

Vice President,
Mathematics
UnboundEd



Dean Ballard

Director of Mathematics
CORE Learning



Joan Barrett

Educational Consultant
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Allison Carter

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Katie Laskasky

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Advisory Council Members



John Moreno

K-12 Math Specialist /
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**Sarah Murphy
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Program Manager,
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Rebecca Rodriguez

Executive Director
**Los Angeles College
Prep Academy**



Francisco Villegas

Senior Vice President of
School Transformation
**The Partnership for Los
Angeles Schools**

*“You have to know your student population, your context, your teachers, and their experience. What if you’re in a **school district where turnover is massive every year**? If that’s the case, then do you have a curriculum that stands on its own, [and can you] then support your teachers, new or not, coming in to be able to implement it with fidelity?”*



Dr. Trena Wilkerson, Bellwether *Rounding Up* Report