

# LDOE: Acceleration in Mathematics

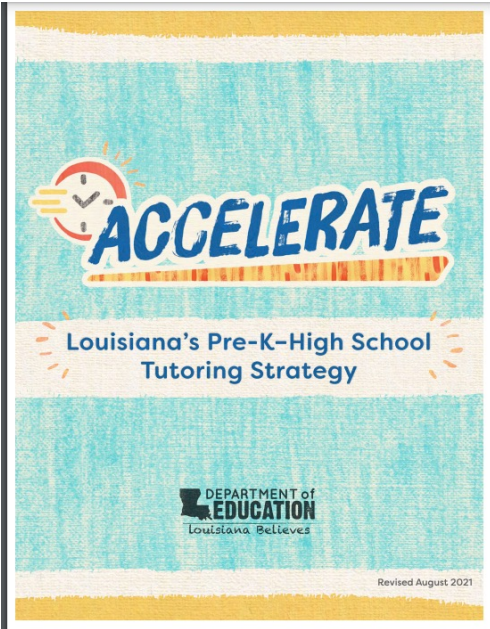
## Utilizing Innovation Configuration Maps to Engage in Reflective Practice

Asynchronous Professional Learning Series

— Equity — Access — Excellence —

### Accelerate Initiative: Vision

**All** students can achieve high expectations regardless of their background, family income, or zip code.



## Community Agreements



Come as you are



Learning is iterative



Embrace the pause

## Learning Outcomes

Through today's asynchronous learning, participants will:

- Explore tools that promote reflective practice by providing clear and actionable descriptions of mathematics teaching and learning aligned with engaging in the formative assessment process to support implementation of acceleration in the math classroom.
- Identify practical next steps that will lead to sustainable change and impact student achievement.

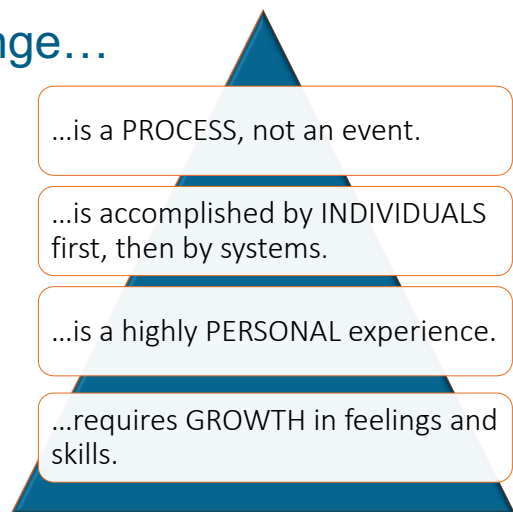
## Reflective practice

Underlying assumptions of reflective practice...

- Everyone needs professional growth opportunities.
- All professionals want to improve.
- All professionals want to learn.
- All professionals can assume responsibility for their own professional growth and development.
- People need and want information about their performance.
- Collaboration enriches professional development.

## Innovation Configuration

Change...



Individuals implement change in different configurations—or operational forms.

—Hall, G. E., & Hord, S. M. (2015).  
Implementing change: Patterns, principles, and potholes. Boston, MA: Pearson/Allyn & Bacon.

# Why formative assessment?



## EFFECTIVE INSTRUCTION

Ongoing formative assessment should drive the instruction for individual students or small groups with common needs. Effective instructional practices delivered by effective educators will



### Intentional Structures



### High-Quality Materials



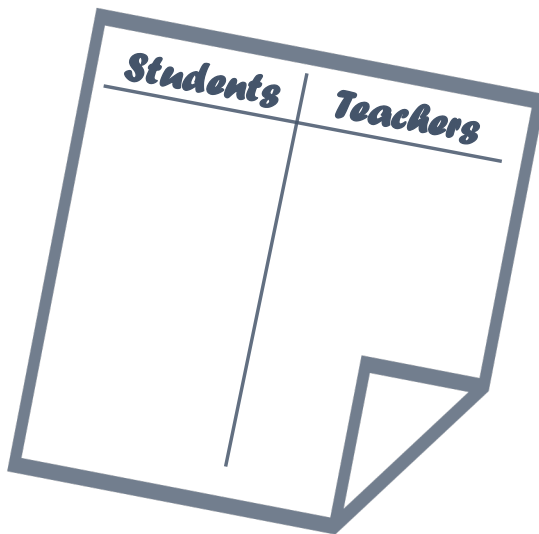
### Effective Instruction

- Using lesson-embedded assessments (e.g., exit tickets) provides educators with timely feedback on student learning.
- Daily student work should be monitored for progress and analyzed for real-time student needs.
- Data should remain at the center of planning for instruction, are instrumental in driving and tracking student progress, and are excellent tools for improving instruction.

# Formative Assessment to Promote Acceleration

What would it look and sound like if students were engaged in the formative assessment process?

What teacher actions would you observe?



# Innovation Configuration (IC) Maps

An IC map presents carefully developed word-pictures of selected components of an innovation, or change, and the different operational forms that may exist.

IC maps are for shared learning.



Image credits: Microsoft Office icons

— Hall, G. E., & Hord, S. M. (2015). *Implementing change: Patterns, principles, and potholes*. Boston, MA: Pearson/Allyn & Bacon.

## IC Map Preview

What do you notice?

What do you wonder?



Innovation Configuration Map: Engaging in the Formative Assessment Process to Accelerate Learning in the Mathematics Classroom

**Clarifying LEARNING: Engaging in the Formative Assessment Process** (Explicitly communicate their own mathematical reasoning and methods related to learning goals; adjust methods and reasoning; explicitly respond to mathematical reasoning and methods of others; monitor progress towards learning goals)

**Ideal State**

Innovation Configuration Map: Engaging in the Formative Assessment Process to Accelerate Learning in the Mathematics Classroom

**Clarifying TEACHING: Engaging in the Formative Assessment Process** (Clarify learning; elicit evidence of student thinking; interpret evidence of student thinking; respond to evidence of student thinking)

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**Students:**

- Identify learning goals.
- Represent solutions verbally, in written work, or in concrete models.

The Charles A. Dana Center at The University of Texas at Austin

Image credits: Microsoft Office icons

# Innovation Configuration Maps

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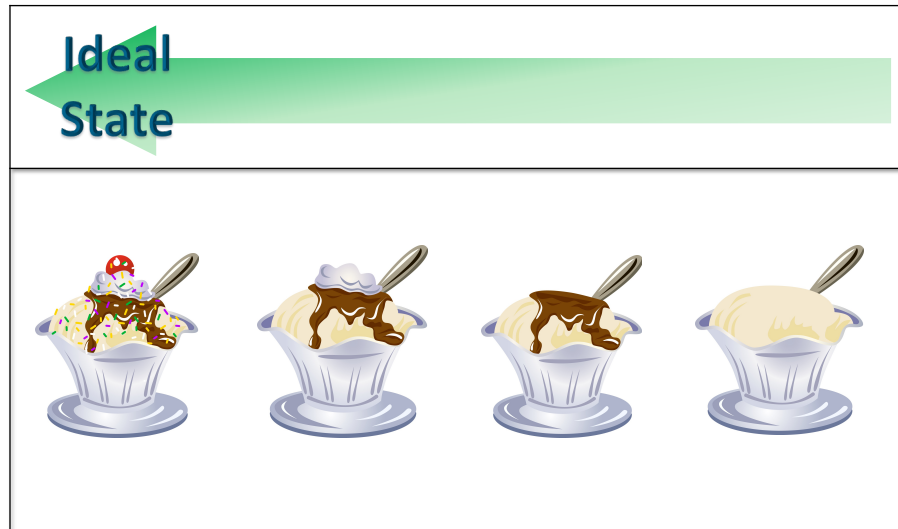
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## Innovation Configuration Maps



## A Deeper Dive

“Acceleration is accomplished when teachers focus on looking forward through the provision of just-in-time supports that ensure readiness to engage with grade-level content by building knowledge and connecting it to skills in current lessons. When teachers accelerate learning, they diagnose where students are on their path to mastery and put students on a fast track to accessing on-grade-level content instead of delaying it through remediation...

...mitigating barriers to learning serves students and their diverse needs best when driven by an asset-based mindset, which celebrates the value of all learners. This requires viewing student supports as opportunities to build upon and leverage the unique strengths, or assets, that learners bring to the classroom. “

- What connections are there between this description of acceleration and the “ideal state” on the IC maps?
- What do you notice about the variations across levels?



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Charles A. Dana Center

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**Ideal State**

Students:

- Explain current goals and how they link to prior knowledge while building more sophisticated understandings and anticipate future connections.
- Engage in discourse around the mathematical purpose and goals related to their current work.
- Explain, represent, and justify math understanding, reasoning and methods verbally, in written work, or using concrete models.
- Reveal understanding by making revisions to methods, adjusting explanations, or modifying arguments.
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- Demonstrate and justify self-assessment of progress toward learning goals, addressing and connecting immediate and long-term goals.

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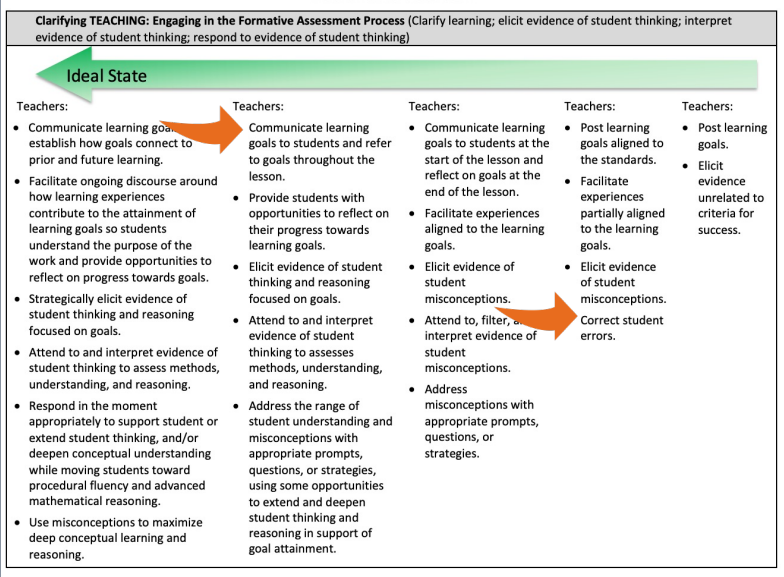
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# Innovation Configuration Maps



# Virtual Classroom Visit

While “visiting the classroom”, make notes on the teaching and learning that you observe.

## Virtual Classroom Visit

Take an asset-based approach as you consider the following:

- What variations on the IC map are observable?
- What evidence from the classroom visit and language from the variations on the map supports your thinking?
- What might this teacher set as goals or next steps in working towards that "ideal state"?

## Debrief on Clarifying Teaching

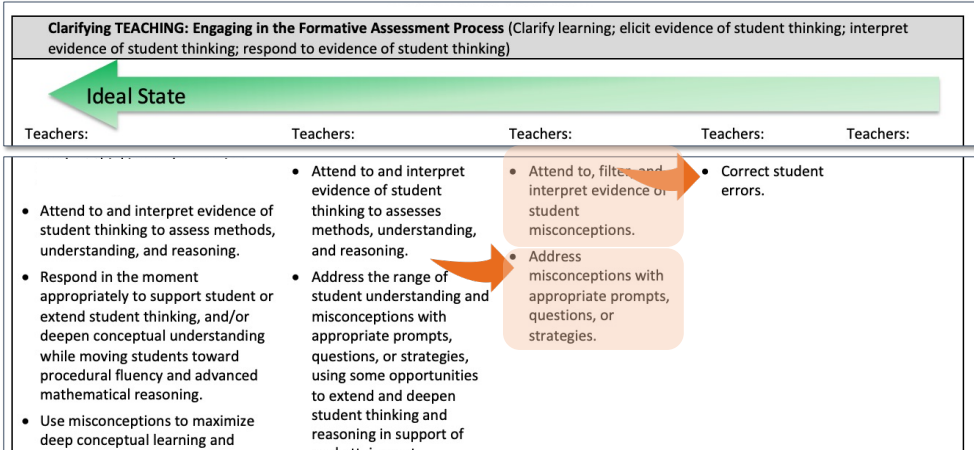
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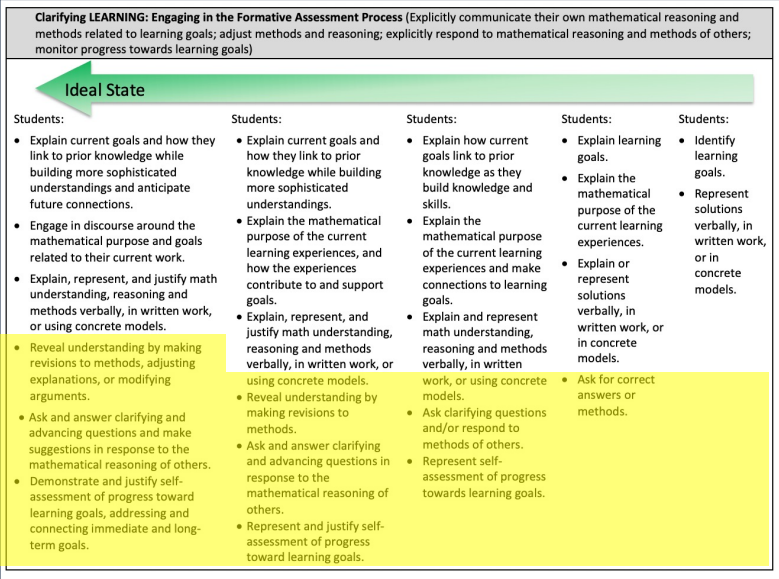
# Debriefing on Clarifying Teaching



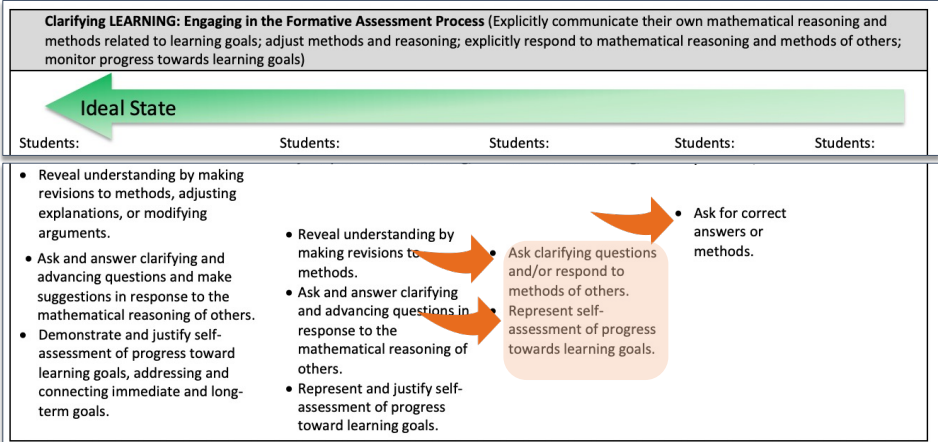
What might this teacher set as goals or next steps in working towards that "ideal state"?

# Debrief on Clarifying Learning

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# Debriefing on Clarifying Learning



What might this teacher set as goals or next steps in working towards that "ideal state"?

# IC Map Implications

How can IC maps be used to promote reflective practice?

- Goal setting
- Identifying next steps
- Peer observations
- Professional learning needs
- Focusing coaching support
- Providing feedback
- Clarifying classroom observations

## Personal Reflection and Identifying Next Steps

Reflect on a recent lesson.

- Which variations do you think were exhibited?
- What are some focused goals you can set?
- What actions will you take to reach those goals?

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## Additional Support/Resources

### Louisiana Believes

- **Accelerate**  
<https://www.louisianabelieves.com/academics/accelerate>
- **Accelerate Math**  
[https://www.louisianabelieves.com/docs/default-source/accelerate/accelerate-math.pdf?sfvrsn=433c6618\\_14](https://www.louisianabelieves.com/docs/default-source/accelerate/accelerate-math.pdf?sfvrsn=433c6618_14)
- **K-12 Math Planning Resources**  
<https://www.louisianabelieves.com/resources/library/k-12-math-year-long-planning>

## REFERENCES

Innovation configuration map creation informed by National Council of Teachers of Mathematics. (2014). *Principles to actions: Ensuring mathematical success for all*. Reston, VA: Author. Available via <https://www.nctm.org/PtA>

**Slides 2, 7, 14, 15:** Screenshots and quotes from Louisiana Department of Education. (2021). Accelerate: Louisiana's Pre-K-High School Tutoring Strategy. Available via [https://www.louisianabelieves.com/docs/default-source/accelerate/accelerate---louisiana's-pre-k-12-tutoring-strategy.pdf?sfvrsn=d7366618\\_18](https://www.louisianabelieves.com/docs/default-source/accelerate/accelerate---louisiana's-pre-k-12-tutoring-strategy.pdf?sfvrsn=d7366618_18)

**Slides 6, 9:** Hall, G. E., & Hord, S. M. (2015). *Implementing change: Patterns, principles, and potholes*. Boston, MA: Pearson/Allyn & Bacon.

Questions? Comments? Want to know more?

Contact  
[STEM@la.gov](mailto:STEM@la.gov)