Accelerating Learning in High School Math

The Louisiana Math Refresh aims to support all Louisiana students to have improved math outcomes through high-quality instruction designed for accelerating learning in all settings.

Student math outcomes will increase when schools create high-impact structures that serve to prioritize all students' daily successful engagement in high-quality, grade level core math instruction alongside peers.

Math outcomes will improve when **students receive timely proactive interventions that connect prerequisite learning to current and upcoming grade level work.** These supports must be individualized, based on frequent and formative assessment of student needs.

Ongoing professional learning, quality resources, and proactive planning are essential for effective teaching and accelerating math readiness.

Families, caregivers and communities play an essential role in the math development of children at all ages and stages.

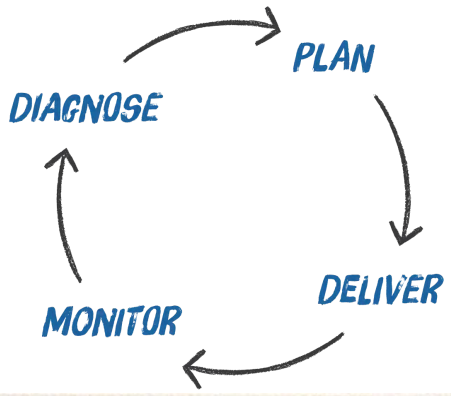
Acceleration in Math

Learning acceleration is an equal-access, just-in-time approach to addressing unfinished learning that focuses on identifying and building upon the assets students bring to the learning experience through addressing unfinished learning in the contents of new learning by integrating necessary prior knowledge with grade-level mathematics.

Acceleration

- is support that builds the knowledge and skills students need to be successful in grade-level mathematics within a high-quality curriculum;
- requires proactive, deliberate action planning; and
- is targeted and individualized according to students' specific needs as evidenced by formative data collected as students engage in the work of the curriculum.

This work all happens as teachers engage in the acceleration cycle to diagnose student's unfinished learning, plan to proactively address students' needs, monitor student progress and deliver the needed support as preparation for core instruction.



Model Acceleration Resources

Below are three sample options to support tutoring of high school math students. Teachers should choose the resource that best aligns to their locally adopted curriculum. This list is not comprehensive, but highlights the most widely implemented resources and connects their use to the Acceleration Cycle.

Resource	Acceleration Cycle Connections
Accelerate Math developed by **expert Louisiana Teacher Leaders** ideal for use in conjunction with **any high-quality math curriculum**	Accelerate Math resources are available to support learning acceleration in Algebra I and Geometry. These resources are designed to flexibly pair with any high-quality curriculum. ● **Diagnose** students' unfinished learning by administering the Acceleration tools. ● **Plan** to provide proactive support ahead of grade-level content. ● **Deliver** small group instruction guided by the provided Google slides presentations. ● **Monitor** the success of the provided supports through exit ticket analysis as well as students' performance as they engage in grade-level learning.
Eureka Math^2 Equip^1 developed by **Great Minds, Inc.** ideal for use in conjunction with **Eureka Math or Eureka Math^2**	Eureka Math Equip™ was designed to ensure that students have the essential foundational knowledge they need to engage with grade-level content as they return to school and throughout the year for systems implementing Eureka Math^2. ● **Diagnose** students' unfinished learning using the Equip premodule assessments. ● **Plan** to provide proactive support ahead of grade-level content. ● **Deliver** small group instruction guided by using consolidated lessons, instructional videos, supporting lessons or fluency practice provided within Equip. ● **Monitor** students as they engage in the embedded supports and curriculum embedded formative assessments.
Illustrative Math Resources developed by **Illustrative Mathematics** ideal for use in conjunction with **Illustrative Mathematics**	Within Illustrative Mathematics several resources are available to address unfinished learning using an acceleration approach ● **Diagnose** students' unfinished learning using the Check Your Readiness pre-unit assessments. ● **Plan** to provide proactive support ahead of grade-level content informed by the results and guidance built within the Check Your Readiness assessments. ● **Deliver** the planned small group support or proactive instructional scaffolds so that students can access grade-level content. ● **Monitor** students' performance on daily Cool Down problems. Reference the Cool Down Guidance to inform appropriate teacher actions.

[1]Paid product.