

Laying The Foundation Program



Empowering Teachers for Student Success

Today, more than ever, a quality education is the foundation of opportunity and a rewarding livelihood. Teachers must be skilled at instructing diverse classrooms, using new technologies and preparing students to be confident and creative problem-solvers, capable of adapting to the evolving workforce demands of our increasingly STEM-intensive economy.

NMSI's **Laying the Foundation Program** equips teachers with the training, support and resources they need to drive student achievement. The program helps teachers of grades 3-12 raise expectations and shift students to advanced levels of thinking and learning. Developed by experienced teachers and content experts, the program provides:

- Comprehensive hands-on training led by a national corps of expert classroom teachers.
- Classroom-ready materials and resources.
- Instructional best practices for increasing academic rigor and building college and career readiness.

Program Elements of Success

Hands-On Training



LTF facilitators guide participants through content-rich instruction that moves beyond 'what' to teach to 'how' to deepen student understanding of key concepts. Collaborative, discovery-driven training sessions enable and encourage teachers to:

- Experience first-hand how students learn and process new skills and concepts.
- Adopt new techniques and receive feedback from colleagues.
- Implement classroom activities to infuse their existing curricula with instructional rigor.

Classroom-Ready Materials & Resources



Training participants receive a full suite of print and online classroom-ready materials that encourage higher-order thinking and are aligned with state standards, including:

Model Lessons

Content-rich resources with stated learner outcomes and teaching suggestions.

Formative & Summative Assessments

Tools to help monitor student understanding of complex concepts critical to rigorous coursework in higher grades.

STEM Labs & Activities

Classroom exercises that allow teachers of all experience levels to relate science, technology and math concepts to real-world examples.

Instructional Best Practices



Training emphasizes research-based instructional strategies and best practices that build on teachers' pedagogical knowledge to increase the impact of their classroom practice, including:

Inquiry-based Learning

Approaches for engaging students to take a more active part in their own learning.

Instructional Scaffolding

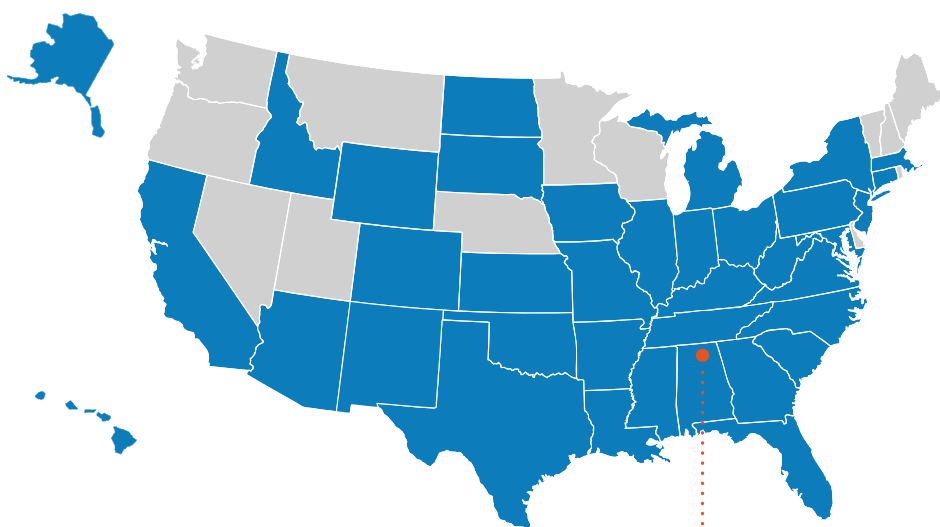
Techniques and guidance for delivering differentiated instruction and facilitating students' progression toward advanced coursework.

Vertical Alignment

Education about the knowledge and skills students need to master at each grade level to meet college- and career-readiness expectations.

Results + Impact

- Research shows that students whose teachers implement LTF materials and instruction scored significantly better on ACT Aspire™ math and reading assessments than students of teachers who did not receive LTF training.*
- To date, nearly **50,000 teachers nationwide** have participated in NMSI's Laying the Foundation Program and are using their expertise to build the capacity of their schools and districts to advance student achievement at all grade levels.



{ With the Laying the Foundation Program, I learned to meet each of my students where they are with scaffolding and build true rigor into every lesson. The way I teach now is so much more intentional. Everything I do in the classroom is with a goal in sight. }

— Stephanie Hyatt, Lee High School, Huntsville, Alabama



Preview sample lessons at
www.nms.org/freelessons

For more information about NMSI's Laying the Foundation Program, contact Debbie Reynolds-Johnsen at **dreynolds@nms.org** or **214.346.1222**

*Phelan, J. and Brown, R. (2017). *ALSDE/A+ College Ready LTF teacher implementation evaluation study* (West Coast Analytics Research Report). Irvine, CA: West Coast Analytics.

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Available Training

LTF teacher training is available for the following disciplines and grade levels:

ELEMENTARY (grades 3-5)
Math/Science
English/Social Studies

MIDDLE SCHOOL
English
Math
Science

HIGH SCHOOL
English
Math
Biology
Chemistry



The National Math and Science Initiative has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET).