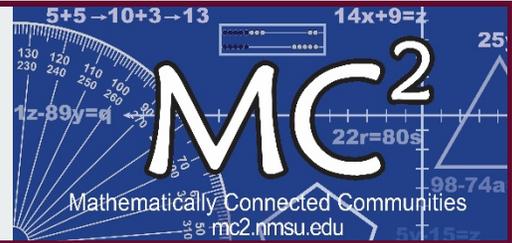


# MC<sup>2</sup> Capacity-Building Model



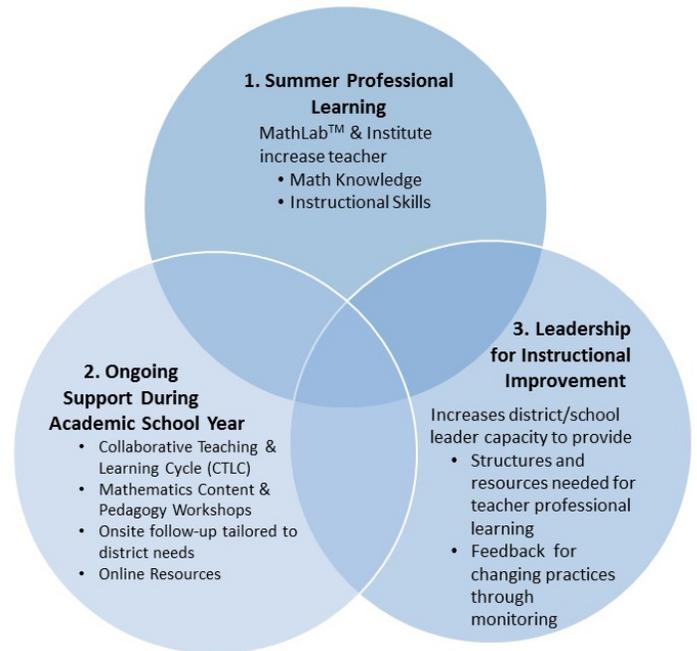
## Program Goals

The goal of Mathematically Connected Communities (MC<sup>2</sup>) is to improve the mathematics learning for students in grades K-12 through professional learning experiences that 1) build teacher mathematics knowledge and pedagogical skills for effective teaching and 2) promote district capacity for creating support systems and structures for educator ongoing, job-embedded professional learning.

## Capacity-Building Model

To meet the project goals, MC<sup>2</sup> draws from research about *effective mathematics teaching and learning*, *Standards for Professional Learning*, and *Leadership for Instructional Improvement*. MC<sup>2</sup> implements a *Capacity-Building Model* (see below) in various school districts across New Mexico.

The components of this interconnected, three-part system for on-going professional learning are designed to guide the work in MC<sup>2</sup> partner districts.



MC<sup>2</sup> Capacity-Building Model

### Component 1: Summer Professional Learning (SPL)

- **MC<sup>2</sup> MathLab™:** Supports classroom practice by studying elements of a standards-based learning environment (SBLE) and deepens teacher pedagogical and content knowledge aligned with the Common Core State Standards in Mathematics (CCSS-M).
- **Math Institute:** Open to a subset of teachers who attend MathLab™. Designed to develop teacher mathematics content knowledge of CCSS-M, cultivate pedagogical practices for improved classroom learning, and engage participants in deepening their own mathematical content knowledge.

### Component 2: Ongoing Support during Academic School Year

- **Collaborative Teaching and Learning Cycle (CTLIC):** Collaborative, non-evaluative, 3-hour process where teachers plan a lesson, observe/record student learning, reflect/debrief on work of the team, and brainstorm new ideas to incorporate into their classroom practice.



## Component 2: Ongoing Support during Academic School Year (continued)

- **Mathematics Content and Pedagogy Workshops:** MC<sup>2</sup> provides grade band workshops (K-1, 2-3, 4-5, 6-8) on selected math topics in partnership with the New Mexico Public Education Department and STEM Ready.
- **Onsite Follow-up Tailored to District Needs:** MC<sup>2</sup> Mathematics Education Specialists work alongside educators outside of the classroom.
- **Online Resources:** Provide K-12 teachers in rural or isolated areas with a connection to colleagues and resources for professional learning through video-conferencing. Additional support for teachers across the state includes but is not limited to [webinars](#), [YouTube Channel videos](#), and [website](#) materials.

## Component 3: Leadership for Instructional Improvement

- **Leadership Development for Administrators:** The purpose is to build district capacity in developing action plans that include professional learning for all math teachers. Leadership teams consist of district/school leaders, instructional coaches, and teacher leaders. The learning designs for administrators include the following:
  - **Leadership Academies:** Two-days of professional learning held during MathLab™ to increase district/school leader capacity to provide the *Support Surround* needed including structures for ongoing teacher collaboration, scheduling and allocating resources, knowing what to look for in math classrooms, providing feedback to teachers for continued growth, and monitoring implementation.
  - **Leadership Team Meetings:** Held throughout the school year, as needed, to reflect on and monitor the school action plan and *Support Surround*.
- **Teacher Leadership Cadre (TLC):** Builds network of teacher leaders who study and enhance their teaching practice while serving as professional learning leaders at their school sites and districts. The cadre provides a structure for teacher leaders to develop content and pedagogical knowledge and leadership skills. Teacher Leaders design and facilitate learning during MathLab™ and Institute.

***For more information, questions, and/or comments, email [mc2@nmsu.edu](mailto:mc2@nmsu.edu)***