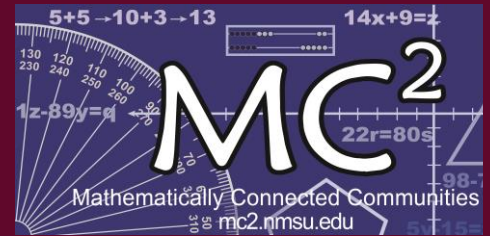


MC² Capacity-Building Model

2017-2018

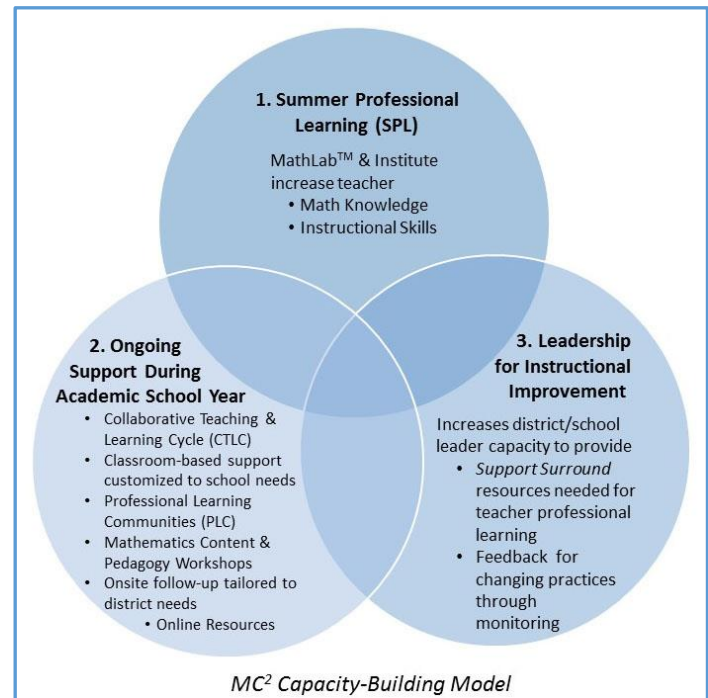


Program Goals

The goal of Mathematically Connected Communities (MC²) is to improve mathematics learning for students in grades K-12 through professional learning experiences that 1) build teacher content knowledge and pedagogical skills for effective teaching and 2) promote district capacity for creating support systems and structures for ongoing, job-embedded professional learning.

Capacity-Building Model

The components of this interconnected, three-part system for on-going professional learning are designed to guide the work in MC² partner districts across New Mexico.



Component 1: Summer Professional Learning (SPL)

- **MC² MathLab™:** Supports classroom practice by studying elements of a Standards-Based Learning Environment (SBLE), Launch/Explore/Summarize (LES) lesson plan model, discourse/questioning, and Number Talks; 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 required of CCSS-M, cultivate pedagogical practices for improved classroom learning, and engage participants in deepening their own math content knowledge

Component 2: Ongoing Support during Academic School Year

- **Collaborative Teaching and Learning Cycle (CTL):** 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
- **Classroom-Based Support Customized to School Needs:** MC² Mathematics Education Specialists work alongside teachers in the classroom



All About Discovery!™

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- **Professional Learning Community (PLC):** Facilitates Hord & Summers' research-based school improvement model to increase leadership capacity, embed professional learning into daily work, create positive school cultures, develop accountability, and boost student achievement
- **Mathematics Content and Pedagogy Workshops:** Grade-band workshops (K-2, 3-5, 6-8, HS) on selected math topics in partnership with the New Mexico Public Education Department
- **Onsite Follow-up Tailored to District Needs:** MC² Mathematics Education Specialists work alongside educators outside of the classroom
- **Online Resources:** Provide K-12 teachers with a connection to colleagues and support for professional learning through monthly eNewsletters, Edmodo pages, video-conferencing, and online office hours with mathematicians and/or MC² staff; Additional resources include but are not limited to [webinars](#), [YouTube Channel videos](#), and [website](#) materials

Component 3: Leadership for Instructional Improvement

- **Summer Leadership Academy:** Two-days of professional learning held during MathLab™ to increase district/school leader capacity to develop action plans that include professional learning for all math teachers and 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
- **Principals Professional Learning Community (PPLC):** Connects administrators as they support teacher implementation of effective practices learned during MC² Summer Professional Learning; Grounded in *MC² Leadership Framework* and *Six Strategies for Change and Implementation Practices*. Learning design includes:
 - Online PPLC Monthly Meetings
 - Customized support for interested principals (in-between online sessions)
 - Wednesday Blast! (weekly reflection questions and research tip)
 - Catch-up webinar for principals who did not attend Summer Leadership Academy
 - Fall and Spring Academies
- **Teacher Leadership Cadre:** Builds network of teacher leaders who study and enhance their teaching practice while serving as professional learning leaders at their school sites and districts; Provides structure for teacher leaders to develop content and pedagogical knowledge and leadership skills; Teacher Leaders design and facilitate learning during MathLab™ and Institute
- **Principal Leadership Cadre:** Strengthens MC² model for systemic change; establishes school culture of professionalism, collaborative support, and high expectations for math teaching/learning; Designed *Leadership Framework* to support other principals in fostering teacher professional math learning and children's conceptual understanding of mathematics