

## A Model for Creating Systemic Change in Kentucky

**Context:** *What is the social & historical culture within the larger system?*

- ➔ A Collaborative for Change: The Kentucky legislature, the Kentucky Department of Education, the Educational Professional Standards Board, the Council on Post-Secondary Education, the Committee for Mathematics Achievement, and the Kentucky Center for Mathematics identified the need and are working together to implement a shared vision for improving mathematics education, including a focus on early numeracy.

**Competencies:** *What is the shared vision of the skills and knowledge teachers need in order to influence student learning?*

- ➔ Math Recovery illuminated the need and provided a lens for deepening understandings of content and pedagogy.
  - Math Recovery helped illuminate teachers' understandings that current perceived competencies were inadequate.
  - Teachers evolved in their content and pedagogical knowledge & skills for developing numeracy.
  - Focused teachers' attention on student thinking as the basis for instructional decisions.

- ➔ State funding ensures that teacher growth and development is ongoing and a legitimate part of the work of MITs.

- ➔ State funding is leveraged to develop teacher leadership.
  - ➔ State funding for the Kentucky Center for Mathematics provides for program evaluation and ongoing support.
    - Centra Meetings
    - Collegial Team Meetings
    - Forum

**Conditions:** *What is the external architecture surrounding student learning?*

**Goal:**  
Teacher growth for improved student numeracy

- ➔ Created a community of teachers who are researchers.

- ➔ Professional relationships are valued:
  - Collegiality and collaboration
  - Everyone engaged as learners.
  - Teachers share individual struggles and reflect on their learning with collegial support.

- ➔ Teacher growth has a ripple effect
  - Mathematics Intervention Teachers are passionate about sharing with colleagues.
  - Colleagues are receptive to learn what works.

**Culture:** *What is the quality of relationships? What are the shared beliefs, assumptions, expectations, and behaviors?*