
MATHEMATICS

— Progress Report 2016-17 —

Goal of 2016-17

The goal for mathematics instruction during the 2016-17 school year has been to continue to increase student understanding and engagement within the Common Core Math Standards.

This year's goals:

- A pilot of primary resources in select math classrooms
- Increased math professional development for staff members
- Increased training for teachers to use data to drive instruction

At the end of the 2016-17 school year, we would like to propose a recommended path to continue upon to increase student learning in mathematics.

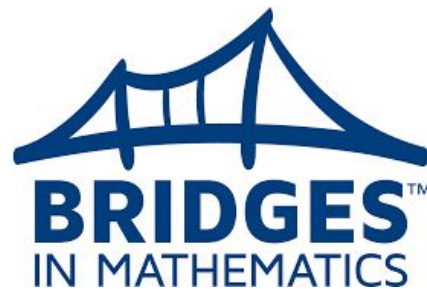


Steps Taken in 2016-17: The “What” and the “How”

What: 2016-17 Math Resource Pilot

The “what” will be the resource pilot:

- A full year pilot
- The materials, training, and pacing that is recommended by the company
- PreK-5: Origo Stepping Stones
- Kinder-4: Math Learning Center Bridges
- Grades 6-8: Big Ideas Math
- Watching data and collecting feedback



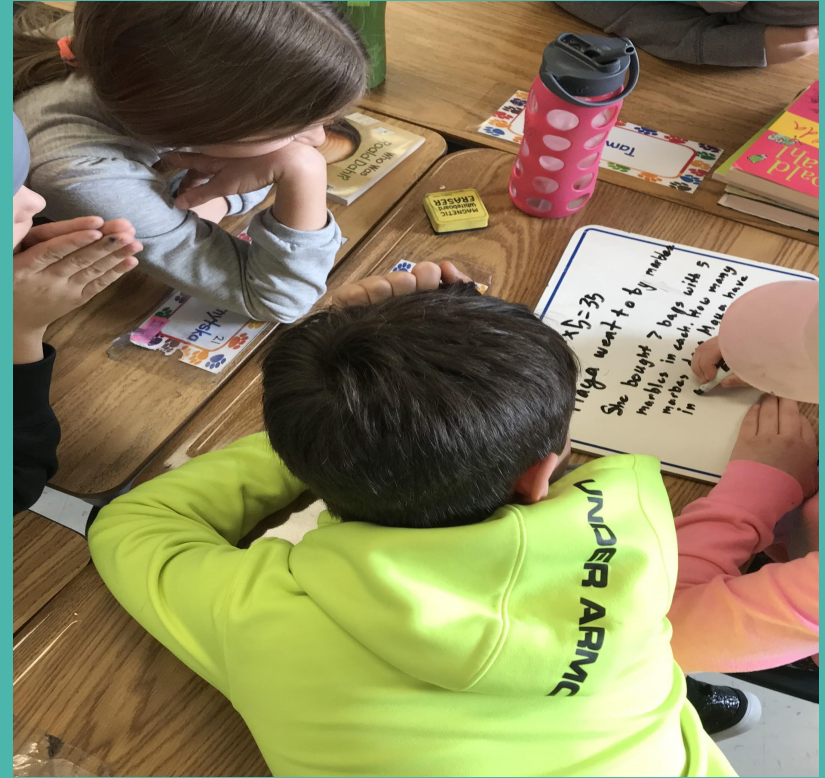
How: Metro Chicago Math Initiative

MCMI has a focus on 5 big ideas:

1. Focusing on student thinking and learning, with rich tasks and formative assessment
2. Building teacher capacity by attending to content knowledge, resources, and practice
3. Enabling effective instruction through structures, policies, and supervision
4. Promoting collaboration to support reflection, growth, and sustainability
5. Developing a district infrastructure to develop and sustain a first-rate mathematics program

Math Talk

Teachers providing a variety of strategies to elicit math dialogue in the classrooms



Strengthening Number Sense

Teachers providing students with structured opportunities to work with numbers in various ways



Introducing Multiple Strategies

Teachers empowering students by introducing multiple strategies, allowing them the time to work through these strategies in order to determine which makes the most sense to them



Items to Consider

- Teacher feedback
- Student feedback
- Parent feedback
- MAP data
- Ed Reports
- Professional development
- Price
- Which resource will allow us the greatest opportunity to meet the needs of our students and foster their mathematical thought process

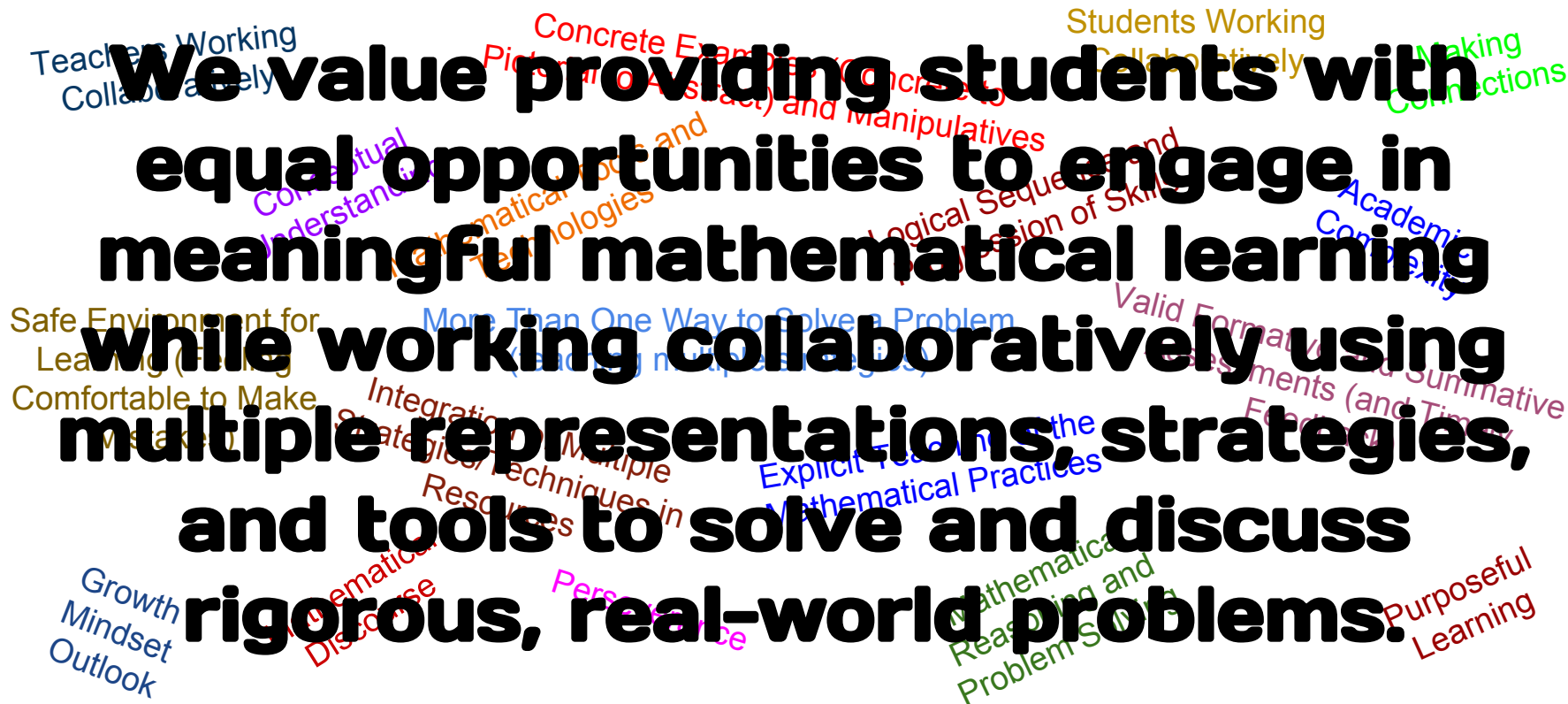


Progress Made

- ✓ Provided on-site PD for Origo Stepping Stones and Big Ideas
- ✓ Offered site visit for Bridges pilot program
- ✓ Administered and analyzed trimester 1 teacher feedback
- ✓ Provided additional research on best practices in mathematics
 - [NCTM Principles to Action Executive Summary](#)
 - [TEDX Talk](#) from Jo Boaler, Professor of Mathematics at Stanford Graduate School of Education
- ✓ Created “District 107 Values for Teaching & Learning Mathematics”

District 107 Values for Teaching & Learning Math

We value providing students with equal opportunities to engage in meaningful mathematical learning while working collaboratively using multiple representations, strategies, and tools to solve and discuss rigorous, real-world problems.



The word cloud includes the following terms: Teachers Working Collaboratively, Concrete Examples, Students Working Collaboratively, Making Connections, Logical Sequences and Progression of Skills, Academic Competency, Valid Formative and Summative Assessments (and Timely Feedback), Purposeful Learning, Mathematical Reasoning and Problem Solving, Persistence, Mathematical Discourse, Growth Mindset Outlook, Safe Environment for Learning (Fostering Mistakes), Comfortable to Make Mistakes, Integration of Multiple Strategies/Techniques in Resources, Explicit Teaching of Mathematical Practices, More Than One Way to Solve a Problem (Encouraging multiple strategies), and Conceptual Understanding of Mathematical Tools and Technologies.

Progress Made Continued

- ✓ Examined [Ed Reports](#) for pilot resources
- ✓ Compared prices for pilot resources
- ✓ Compared MAP data for elementary pilot classes
- ✓ Articulated with Lyons Township High School
- ✓ Articulated with other area districts using pilot resources
- ✓ Administered trimester 2 teacher feedback

Still In Progress...

- Analyze trimester 2 teacher feedback
- Administer and analyze parent/student feedback
- Provide Board of Education with recommendations for moving forward (April BoE meeting)

Questions?

