

Mathematics Coaching Program

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Mathematics Coaching Program

- The Mathematics Coaching Program (MCP) is entering its 10th year.
- Many of the 239 schools in which we have had coaches moved their Academic Status from Academic Emergency to Excellent in just 3 years.
- MCP's 225 coaches have had statistically significant gain scores in mathematics content and many of the 4,000+ mathematics teachers with whom they have worked have improved their mathematics content and pedagogical skills.
- In 2012, we reached our 100,000th student and are pleased to report that in many classrooms, students are becoming successful mathematics problem solvers. Many districts where we work have seen double-digit gain scores on state achievement exams in the first year.



We would like to offer
our resources
to your school district.



Goals of the MCP

- Improve learning in mathematics through research-based, reform-oriented teaching methodologies that are recognized to help students better learn, understand, and apply mathematics.
- Improve teachers' and students' achievement, growth, and dispositions toward mathematics.



Mathematics Coaching Program

The efforts of the MCP are grounded by the collaboration between K-12 schools in Ohio, The Ohio State University, and the Ohio Department of Education.



Role of the Mathematics Coach in Your School

- Coaches will participate in monthly professional development sessions focused in mathematics content, pedagogy, and relationship building.
- The coaches take this knowledge back to their school districts to provide sustained, high-quality, classroom-embedded professional development for teachers that is specific to the goals of your school and your district.
- The coach will collaborate with 3 – 4 volunteer teachers at a time for the duration of the coaching cycle to improve student learning and understanding of mathematics.



Role of the Mathematics Coach in Your School

- The coach and teacher will work together to develop lessons, co-teach in the classroom, debrief, and reflect on teaching and learning.
- Coaches will assist teachers as they identify student strategies and ways of thinking about mathematics, and analyze assessment data to help design practices and programs to best meet the needs of the population of students in your school.
- Coaches will also support teachers in the development of their mathematical knowledge for teaching.



Role of the Mathematics Coach in Your School

- After the coaching cycle is complete, we hope coached teachers continue to use MCP strategies in their classrooms and that this process has a positive effect on student achievement scores.
- The coach continues the coaching process with a new cohort of 3 – 4 volunteer teachers during each of the following cycles.





**Mathematically and pedagogically,
what might a typical mathematics
classroom look like after coaching
has occurred?**

Pedagogy implemented focuses on critical features of instruction:

- Pose problems that promote thinking
- Allow students to work freely and use their own thinking
- Circulate to monitor, encourage, and strategically guide students
- Probe student thinking to evoke deeper understanding
- Encourage students to develop multiple representations and identify mathematical connections
- Encourage students to communicate reasoning and justification for their work
- Facilitate discussions about student solutions and problem-solving strategies
- Look for and document evidence of student learning
- Use evidence of student learning to inform subsequent lessons



In the 2013-2014 school year, the MCP reached:

- 15,748 students in Ohio
- 8,879 economically disadvantaged students
- 1,996 disabled students
- 140 Limited English Proficient students



With your help this year, we hope to make an even **greater** impact on students and school districts in Ohio.



Mathematics Coaching Program

**Please complete the
Teacher Interest Inventory
so the mathematics coach in your
building knows if you would like to
work with a coach this academic year.**