



Vision, Mission, and Objective

Vision

Every Ohio high school graduate will be sufficiently competent in mathematics and science to be able to:

- Be a productive worker and a contributing citizen of the 21st Century;
- Gain entrance to an institute of higher learning;
- Be globally competitive.

Mission

To accomplish this vision, OMSC will:

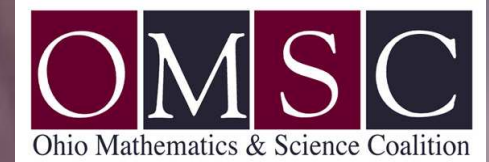
- Foster information sharing and facilitate communication among all mathematics and science stakeholders;
- Facilitate the development of a continuous improvement plan for K-16 mathematics and science;
- Support necessary changes in teacher pre-service training and continuing education;
- Support necessary changes in K-12 curricula and instructional materials;
- Support necessary changes in the manner by which student performance is assessed, so that Ohio's citizens will know where its students, schools, and districts stand relative to others in Ohio, the nation, and the world;
- Support legislative actions needed to finance and accomplish these changes.

Objective

OMSC will continue its work to build a statewide infrastructure that will support systemic and sustainable continuous improvement in Ohio K-16 mathematics and science education.

The following organizations have representatives who participate in Ohio Mathematics and Science Coalition meetings and communications efforts:

- Bischoff, Miller, & Associates, LLC
- Center of Science and Industry (COSI Ohio)
- College of Mount St. Joseph
- Edison Community College
- Fremont City Schools
- GE Aircraft Engines
- Graham City Schools
- Hudson City Schools
- John Carroll University Center for Mathematics and Science Education, Teaching and Technology
- Kent State University
- Lakeland Community College
- Lorain County Community College
- Lyondell Chemical Company
- Mathematical Association of America (Ohio Section)
- Miami University of Ohio
- Miami Valley Hospital
- NASA Glenn Research Center
- National Engineers Week Future City Competition
- Ohio Board of Regents
- Ohio Academy of Science
- Ohio Council of Teachers of Mathematics
- Ohio Department of Education
- Ohio Education Association
- Ohio Federation of Teachers
- Ohio Mathematics Association of Two-Year Colleges
- Ohio Resource Center for Mathematics, Science and Reading
- The Ohio State University
- OSI Discovery
- Otterbein College
- Ross Local Schools
- School Science and Mathematics Association
- Science and Mathematics Education Required for Tomorrow Consortium (SMART Consortium)
- Science and Mathematics Network (Central Ohio TIMSS Collaborative)
- Science Education Council of Ohio
- Southeast Regional Professional Development Center
- Terra Community College
- Toledo Public Schools
- Trimble Local Schools
- The University of Akron
- University of Dayton
- Westerville City Schools
- Worthington City Schools
- Wright Center of Innovation
- Wright-Patterson Air Force Base
- Wright State University Lake Campus
- Van Wert City Schools



Advocates for the improvement of mathematics and science education for all Ohio students

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Ohio Mathematics & Science Coalition

ACCOMPLISHMENTS

Background

The Ohio Mathematics and Science Coalition (OMSC) was organized in 1995 under the auspices of the State University Education Deans (SUED). OMSC members represent the education, business, and public sectors of the state. Governance is provided by an elected 11-member Executive Board, which meets monthly. The statewide coalition meets three times a year.

In 1997, OMSC was designated as the coordinating organization for all the entities associated with mathematics and science education in Ohio by a council composed of the Chancellor of the Board of Regents, the State Superintendent of Public Instruction, the President of the Ohio Business Roundtable, the President of the Ohio Aerospace Institute, and representatives from the Governor's Office and the two largest employers of STEM (science, technology, engineering, and mathematics) talent in Ohio: Wright-Patterson Air Force Base and the NASA Glenn Research Center.



- Partnered with INFOhio to distribute during 2005-2006 more than 120,000 bookmarks to 9th grade students throughout Ohio that focused on six important reasons to study mathematics and science. Coalition members developed the reasons with input from state and national organizations.
- Established and maintains the www.OhioMSC.org Web site to disseminate current information related to improving K-16 mathematics and science education.
- Developed and published evaluation tools for use by school districts in selecting standards-based mathematics and science textbooks and instructional materials. www.ohiomsc.org/omsc/Resource.html
- Made classroom posters available for download to teachers and school administrators that highlight for students the reasons to study mathematics and science. www.ohiomsc.org/omsc/Documents.html
- Created and disseminated *Finding the Solution: Bringing Mathematics and Science Education in Ohio into the 21st Century*.
- Commissioned and published 6 research reports to inform policy decisions and practices related to Ohio's mathematics and science education system.
 - Δ *K-12 Mathematics Education in Ohio: What Districts Intend to Teach, What Teachers Teach*
 - Δ *K-12 Science Education in Ohio: What Districts Intend to Teach, What Teachers Teach*
 - Δ *Assessing Public Opinion and Awareness of Ohio's Education System in Mathematics and Science*
 - Δ *A New Vision for Mathematics Education in Ohio*
 - Δ *Ohio's Vision for Science Education in the 21st Century*
 - Δ *Fact Sheets – How We Learn, How We Teach: Syntheses of the Research*
- Conducted Statehouse Days to inform Ohio's legislators of the critical issues identified in *Finding the Solution*.
- Developed an administrative leadership workshop for the Ohio Department of Education to inform principals and other educational leaders about implementing Ohio's mathematics and science standards.
- Issued position statements opposing the inclusion of Intelligent Design within the Ohio Academic Content Standards, and the reduction of mathematics and science content requirements for middle school teacher licensure.

Other Services Provided by OMSC

- OMSC partners with the Ohio Resource Center and the SMART Consortium to support Ohio schools designated as NASA Explorer Schools by offering teacher and administrator continuing education workshops that focus on best practices in mathematics and science education.
- OMSC assists NASA Explorer Schools in community outreach efforts emphasizing the importance of mathematics and science education for all students.

