

## MATHEMATICS

- Enriched high school curriculum
- Technology-enhanced instruction
- Topics are spiraled throughout grades 9-12
- Meets and exceeds Michigan High School Content Expectations
- All seniors take college-level Calculus

## SCIENCE

- Biology, Chemistry, Physics
- AP/Advanced studies in Biology, Chemistry or Physics in senior year
- Hands-on curriculum
- Small lab groups using advanced equipment
- Student-designed investigations/experiments

## INTER-DISCIPLINARY STUDIES (IDS)

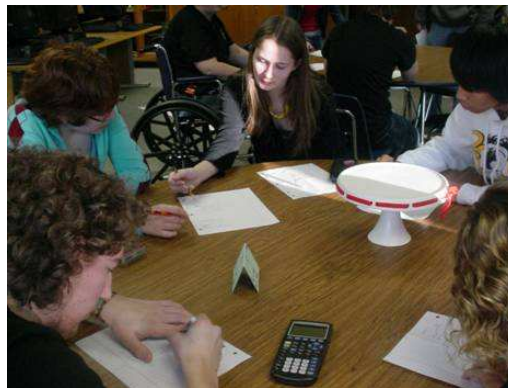
- Integrate software programs in math & science classes
- Solid Works (3-D design software)
- Java (programming language)
- Front Page (web design)
- Flash (computer animation)
- Microsoft Office (PowerPoint, Excel, Word)
- TI – Interactive (graphing)
- Fathom (statistics)
- College/career exploration

## RESEARCH

- Students work with a partner on an annual science research project to:
- Research underlying scientific principles
  - Design experiments
  - Gather data using advanced technologies
  - Analyze and interpret data using advanced statistics
  - Prepare and give formal multimedia presentations
  - Compose extensive research papers
  - Compete in science symposium

*“After graduating from MMSTC and entering Stanford, I felt just as well prepared for college coursework as my peers that came from the prestigious east coast prep schools.”*

**-Joe Shermetero, Stanford University**



## The MMSTC Difference:

- Integration of mathematics, science, technology
- Extensive group work
- Integrated use of technology
- Enriched high school curriculum
- Emphasis on problem-solving and critical thinking
- Multiple teaching methods and strategies
- Interdisciplinary team approach
- Staff collaboration in grade level and research teams
- Flexible scheduling
- Emphasis on research
- Small class sizes allow for personalized attention
- Supportive social environment

*“Graduates of MMSTC are intellectually curious, academically focused, and wonderfully motivated. Their special high school preparation makes them unusually qualified for MSU programs, like the Honors College, that serve high achieving students. Best of all, they have proven that they enjoy and thrive on academic challenge.”*

**- Bess German, Asst. Director, Honors College Michigan State University**

The Macomb Mathematics Science Technology Center (MMSTC) offers a four-year, half-day program of advanced courses in math, science and technology for students in participating districts throughout Macomb County. Students are introduced to college-level concepts, a cooperative academic environment and opportunities for exploring concepts through research and applications.

MMSTC is an honors program that inspires and challenges students who are motivated and academically talented in mathematics and science. Students attend MMSTC for three hours each day and the remainder of their academic preparation is completed at their home high school. Selection for the program is based on courses taken, teacher recommendations, grades, and standardized test scores.

The 65 seniors in the graduating class of 2009 earned \$4.5 million in scholarships to universities including: Michigan, Michigan State, Vassar and Harvard.

Other Student Achievements:

- Siemens Westinghouse Semifinalist
- National Merit Finalists
- Detroit Science Fair Grand Champions
- Michigan Statistics Poster Contest – State winners
- Kettering Mathematical Olympiad
- U of M Mars Rover Design Competition
- Michigan Math Prize Competition – Top 100
- MITES State Competition winners
- 100% of graduates accepted to 4-year colleges/universities

### For More Information

27500 Cosgrove Warren, MI 48092

586-698-4394

<http://www.wcskids.net/mmstc/index.htm>

Superintendent  
Dr. Robert Livernois

Chief Academic Officer  
Brian Walmsley

Director  
Lauran Hoven



# The Macomb Mathematics Science Technology Center Difference



The mission of the Macomb Mathematics Science Technology Center, in partnership with families and communities, is to create the best innovative environment which fosters excellence and vision in teaching, learning, and discovering the relationships of mathematics, science, technology, and society.