Project M³ and Project M²
Effective Curriculum for Developing Mathematical Talent
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Math Curriculum
For Talented Students

What it is not about...

"AREN'T THERE ENOUGH PROBLEMS IN THE WORLD ALREADY?"
Math Curriculum
For Talented Students

What it IS about...

- New advanced content
  - Developed with **focus, coherence and rigor**
- Critical thinking
  - Think deeply about content
  - Persist in problem solving
  - Create viable arguments
  - Defend reasoning and critique reasoning of others
- Creative thinking
  - Pose original problems and/or solutions to problems
Project $M^3$ Curriculum Units

- 6-year Javits curriculum project
- 15 advanced math units
- Levels 3-4, 4-5, and 5-6
- Research-Based Content
  - Number, Operations, Proportional Reasoning
  - Algebra
  - Geometry and Measurement
  - Data, Probability and Statistics
Project $M^2$ Curriculum Units

- 6-year NSF curriculum project
- 8 advanced units
- Grades K-2
- Research-based Content
  - Number
  - Geometry
  - Measurement
Projects $M^3$ and $M^2$

Exemplary Gifted Education Practices

- Focus on big ideas
- Add depth and complexity
- Engage students to think and act like mathematicians
- Incorporate projects and investigations
- Focus on student engagement and love of learning
Award Winning Curricula

- National Association for Gifted Children
- Project M$^3$ Research Paper of the Year for Gifted Education 2009
Research Publications


Research Results
Project M³ Students

For EVERY grade level (3, 4, and 5) for two cohorts:

- Consistent significant gains on all units and standardized tests (ITBS math) for all groups

- Consistent significant gains over a comparison group at all grade levels on standardized and open-response assessments based on above-grade TIMSS and NAEP questions.
Research Results
Project M² Students

For EVERY grade level (K, 1 and 2):
- Consistent significant gains on all units for all grades
- Consistent significant gains over a comparison group of like students at all grade levels on open-response assessments with large effect sizes.
Our Teachers

- New ways to teach
- Significant gains in math knowledge ($p < .05$)
- Greatly increased expectations for students
For More Information

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www.projectm3.org

www.projectm2.org

www.kendallhunt.com