



Math and Science In New Mexico

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AAAS SWARM--April 10, 2008

[Math and Science Bureau]

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Math and Science Bureau (MSB)

- Bureau created in statute by 2007 Legislature; based on recommendations from Town Hall
- Advisory Committee/Council formed
- Strategic Action Plan developed

[Work of the MSB]

- Foster improvement of math and science achievement
- Disburse professional development funding from legislature—
 - Guidelines for effective p.d.
 - Foster partnerships between providers
 - Aim for coherence

Math and Science Advisory Council (MSAC)

- Established in statute
- Members:
 - 3 represent higher education
 - 4 represent preK-12 education
 - 4 represent business/industry
 - 1 represents NM Partnership
 - 12 alternates—same representation

Strategic Action Plan

- Goal 1: *Increase student interest, participation, and achievement in math and science.*
- Goal 2: *Raise public support and awareness of the importance of science and math to New Mexico's economic health and security.*
- Goal 3: *Establish effective collaborations with internal and external partners.*

[Goal 1: pK-12 & Higher Ed]

- Strategies and actions address:
 - Challenging curricula, engaging instruction, assessment
 - Pre-service teacher preparation
 - In-service professional learning
 - Increased involvement of Higher Ed (content) in pK-12 math & science

[Goal 2: Public Awareness]

- Strategies and actions address
 - Marketing/media campaign
 - Developing relationships with business
 - Information to policy-makers
 - Family-friendly resources
 - Recognition of excellence in math and science education

[Goal 3: Collaborations]

- Strategies and actions address:
 - Identifying existing and potential partners
 - Specifying resources of partners
 - Plan for maximizing effectiveness of partnerships

[NM Project 2012]

- Expands and “fleshes out” the Strategic Action Plan
- Developing NM Project 2012 is the current focus of the Math and Science Advisory Council

[NM Project 2012]

- Current (draft) chapters
 - 1. Pre-service teacher education
 - 2. In-service teacher professional development
 - 3. Engineers, Mathematicians, and Scientists in K-12 Education
 - 4. Connecting New Mexico

[NM Project 2012]

- Contents, cont.
 - 5. Standards, Curriculum & Instruction
 - 6. Partnerships
 - 7. Marketing and Public Relations
(Enhancing Public Involvement)

[Collaborations are Essential]

- ...but not simple!
 - Tendency to generalize from individual experience of education—everyone is an expert!
 - Different vocabulary
 - Different approaches to problem solving and discussion/argument

[Collaborations are Essential]

- ...but require time to become effective
 - Issues of trust and respect
 - Mutual benefit; matching goals
 - Who has the time???

[Thank You!]

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MSB website:

[http://www.ped.state.nm.us/MathScience/
index.html](http://www.ped.state.nm.us/MathScience/index.html)