

Title II.D and METS School Grants Programs

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Introductions

- Monica Beglau, Director, eMINTS National Center, UM
- Deborah Sutton, Director, Instructional Technology, DESE
- eMINTS staff members and DESE staff member

What is eMINTS

- eMINTS is an independent unit of the University of Missouri System
- eMINTS is a collaborative project sponsored by DESE, Department of Higher Education, and UM
- eMINTS is funded by grants, contracts, and participation fees

Role of eMINTS

eMINTS provides overall guidance for program implementation:

- Equipment specifications
- Professional development program (schedule and content)
- Leadership team development
- Program resources (eThemes)

Key Elements of eMINTS Instructional Model

What is eMINTS?

- Carefully selected suite of hardware and software
- Constructivist, inquiry-based instructional practices
- Sustained, intensive professional development and classroom visits
- Implementation by school-based teams
- Rigorous external formative and summative evaluation

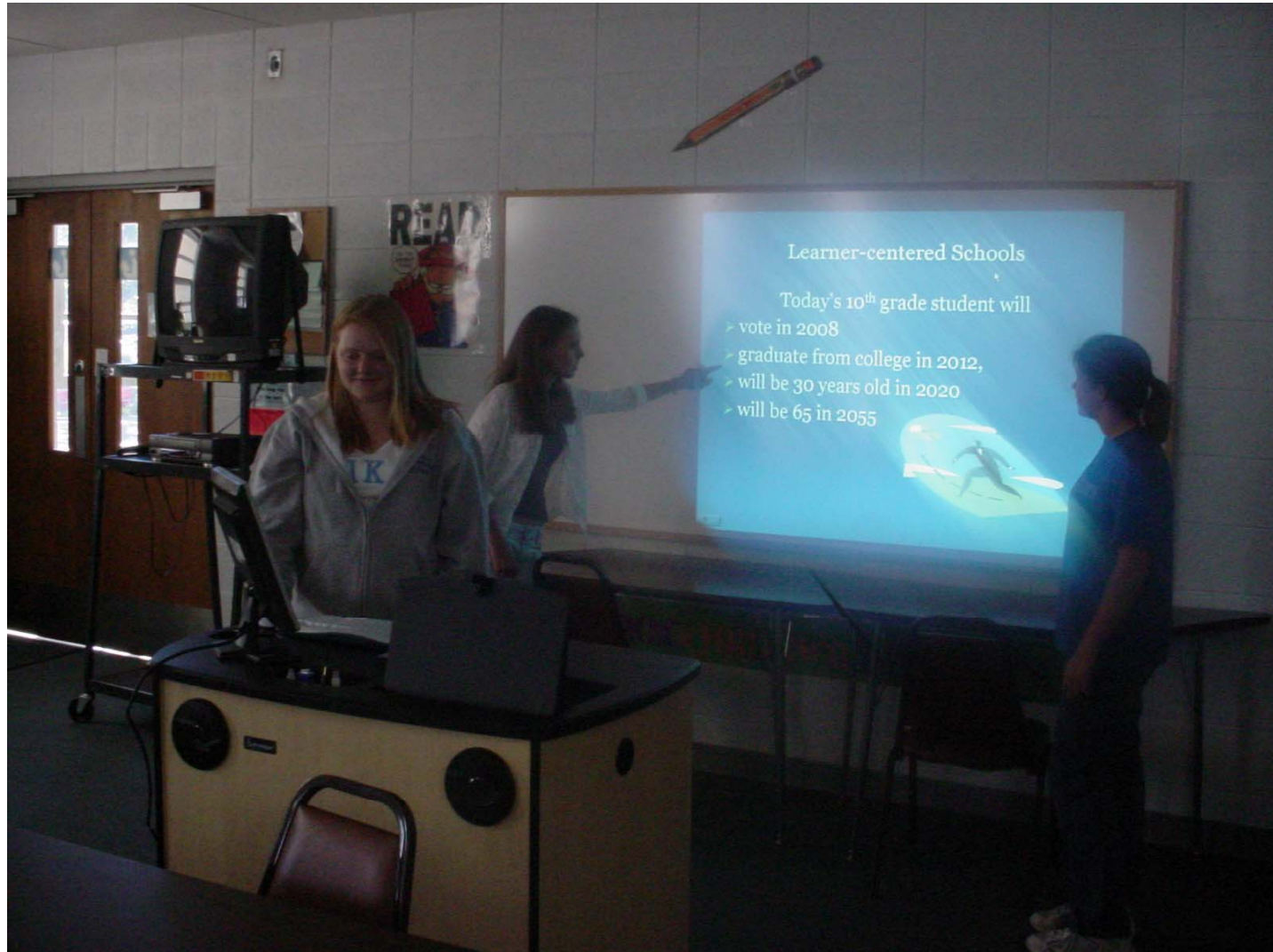
eMINTS and the Missouri Mathematics, Science, Engineering and Technology Coalition (METS)

- eMINTS adopted as “technology” strategy by METS Coalition
 - <http://www.missourimets.com>
- eMINTS and NSF-funded curricula are a good match
 - Use of inquiry and problem-based learning
 - Use of questioning strategies
 - Student-centered methods

eMINTS in Title II.D

- eMINTS meets Title II.D requirements for research-based practices in the use of technology
- Provides impact data for effect of program on teachers and students
- Adopted for used in 8 other states in Title II.D competitive grants

Inquiry-based teaching powered by technology



eMINTS Instructional Model

- Constructivism: inquiry-based, problem-based, project-based
- Creation of meaning using prior knowledge and experience
- Socratic method with levels of probing questions
- Systematic observation, hypotheses testing, and problem-solving
- Real-world situations, public venues
- Cooperative learning
- Community of learners

Sustained, intensive professional development



Delivery of eMINTS PD

- Professional development will be delivered by eMINTS staff in centrally located schools.
- Specific dates will be set by participants and eMINTS staff once cohort groups are formed by geographic location.
- Schools or districts with certified eMINTS instructional specialists (graduates or Yr 2 participants in PD4ETS) may be eligible to deliver eMINTS PD using their own trainer.

Comprehensive eMINTS PD

Original core program:

- 100 hours + 10 classroom visits in Year 1 with 4 release days
- 75 hours + 10 classroom visits in Year 2 with 2 release days
- Full suite of eMINTS hardware/software

eMINTS4All PD

Supplemental systemic program
(allowed ONLY in combination with
Comprehensive eMINTS)

- 50 hours in Year 1 and 40 hours in Year 2 plus 8-9 classroom visits each year
- Modified suite of eMINTS hardware
- Grades K through 12
- Intended to extend eMINTS across school or district

eMINTS Hardware and Software

Specific to program

- Comprehensive eMINTS
- eMINTS4All

Specific to developmental level of students and subject area

- K – 3
- 4 – 12

eMINTS Classrooms

Comprehensive Grades 4 – 12

- Mac or PC or Server-Based Allowed
- One computer: 2 students (can be 1:1 in middle and high school)
 - Software limited to productivity tools (i.e., MS Office), multi-media editing, concept-mapping
- Exploring additional needs for high school and math/science content areas
- SMART Board and projector
- Teacher laptop and work station
- Peripherals - printers, scanner, digital camera, subject-specific items (i.e., probes, handhelds, etc.)

eMINTS4All Classrooms

eMINTS4All K – 3

- Student computers: 3 or 4 in classroom learning center or access to computer lab
- Age-appropriate software
- Productivity
- Concept-mapping
- Teacher laptop
- SMART Board and projector

eMINTS4All 4 - 12

- Student computers: 1 computer for every 4 students in classroom or shared laptop cart (between not more than 2 classrooms)
- Same suite of software as for eMINTS classrooms
- Teacher laptop
- SMART Board and projector

eMINTS in High School



eMINTS Team Implementation

Schools commit most precious resource:
time

- Program development team
 - Principal, technology coordinator, eMINTS and non-eMINTS teachers, library media specialist
- Team responsibility
 - Build vision, goals, objectives, plan and processes for implementation, including funding, evaluation, and sustaining
- Team support
 - eMINTS staff
 - DESE staff as available

eMINTS Program Evaluation

Evaluation completed by eMINTS for ALL projects across the state

Purpose: Ensuring desired output is achieved

- Teacher portfolios – was PD effective?
- Analyses of student performance – did PD result in changes in student achievement?
- Observations of PD session
- Alignment of eMINTS PD materials to ISTE National Educational Technology Standards for Teachers (NETS-T)
- Alignment to Partnership for 21st Century Skills in progress

eMINTS Program Evaluation

Local Project Evaluation completed by EACH project locally:

- Ensures that goals and objectives established to meet LOCAL needs are achieved
- Reported via Program Evaluation Narrative (DESE forms) throughout project period

Contact eMINTS

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Use helpful grant application information
on the eMINTS website at:

<http://www.emints.org/application/index.shtml>