

**IMPLEMENTATION STANDARDS FOR  
NATIONAL SCIENCE FOUNDATION-SPONSORED  
EXEMPLARY SECONDARY MATHEMATICS CURRICULA**

1. PROFESSIONAL DEVELOPMENT: 240 HOURS OF TRAINING  
(60 HOURS PER YEAR X 4 YEARS)
  - a. New Mathematical Content e.g., statistics, probability
  - b. Novel Problems in Unfamiliar Contexts
  - c. Inquiry-Based, “Active Learning” Instruction
  - d. Graphing Calculators Used Extensively
  - e. Alternative Assessments
2. CLASSROOM MENTORING VISITS OVER 4 YEARS: 50 HOURS PER  
TEACHER
  - a. Demonstration Lessons
  - b. Pre and Post-class conferencing
  - c. Quality Assurance
3. TIME FOR TEACHER-TO-TEACHER COLLABORATION & NETWORKING
  - a. Joint-Planning Period During or After School
  - b. National and Local List Serves
4. TEACHER COMPENSATION/INCENTIVES
  - a. 10 in-service days per year at 6 hours per day.
  - b. Extra planning to learn and teach new material
  - c. Student-teacher assignments

5. REGULAR TECHNICAL ASSISTANCE TO SCHOOL ADMINISTRATORS
  - a. Budgeting;
  - b. Teacher, student recruitment issues;
  - c. Appropriate teacher and student roster configurations;
  - d. Transfer, absentee and retention issues;
  - e. Classroom materials, books, calculators requisitions;
  - f. Student testing and college preparation issues;
  - g. National information updates
  - h. Public relations, informational presentations
6. APPROPRIATE TEACHING ASSIGNMENTS & STAFF STABILITY
7. DISTRICT POLICY AND RESOURCE ALIGNMENT
  - a. New Hires and Transfers
  - b. Teacher evaluation criteria
  - c. Testing formats and accountability policy
  - d. School-based and district resource alignment
8. STUDENT ACHIEVEMENT PROGRAM EVALUATION FOR EACH SCHOOL SITE
9. MECHANISMS FOR RECRUITING NEW TEACHERS AND SCHOOLS
10. HIGHER EDUCATION ARTICULATION
  - a. Admissions
  - b. New Teacher Preparation
  - c. Accessing Collegiate Resources

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