

Reach Your Goals: Standards-Based Activities & Projects that Work!

*Spark your students' interest and **make mathematics meaningful** through stimulating activities and projects that are aligned with the National Council of Teachers of Mathematics Principles and Standards for School Mathematics 2000.*

A 2-day workshop for mathematics teachers of grades 5 through 8, math specialists, middle school teams, and administrators who are interested in teaching important math skills and concepts while meeting and surpassing goals of a standards-based curriculum

In this world of extraordinary change, our teaching methods often reflect the way we were taught rather than current best practices or a view to the future. The National Council of Teachers of Mathematics has developed principles and standards in an effort to improve and modernize mathematics curriculum, instruction, and assessment. The principles and standards provide guidance and vision for all educators trying to create quality mathematics programs to meet the needs of today's students.

By using proven classroom-tested activities and projects you will be an active participant in this stimulating two-day workshop. During the workshop you will have an opportunity to experience the power of the *Standards 2000* with **hands-on, minds-on activities** tied to the five content and five process standards. You will also discover the power of writing in the mathematics classroom and learn to tie the skills and concepts of the lesson to authentic assessment.

Experience a **new sense of fulfillment in your career** as you learn activities that will motivate your students and give them the opportunity to do "real mathematics." You will leave this workshop armed with materials you can use on Monday morning along with the knowledge and experience necessary to examine and align your mathematics program to accepted principles and standards for the 21st century.

Workshop Highlights:

Brief Overview of the 6 Principles of the Standards 2000:

- Equity
- Curriculum
- Teaching
- Learning
- Assessment
- Technology

Number and Operation:

- Reinforce important math skills using games.
- Use warm-ups to revisit and reinforce skills.

Algebra:

- Develop algebraic thinking through real-world simulations.
- Reach all students with puzzles and patterns.

Geometry:

- Explore levels of geometric learning with van Hiele's principles.
- Enhance learning using paper-folding.

Measurement & Estimation:

- Learn activities that connect measurement to other curricular areas.
- Use the results of estimation activities to re-examine concepts and skills.

Data Analysis and Probability:

- Collect, organize, meaningfully represent, and analyze data.
- Motivate students using non-threatening "personal data."
- Reinforce the concepts of chance using the power of a childhood game.

Problem Solving:

- Develop a comprehensive curriculum through seven problem-solving goals.
- Help students understand the patterns of mathematics with open-ended problems.

Reasoning and Proof:

- Teach math skills using Venn diagrams.
- Use a highly structured form of cooperative learning to enhance mathematical reasoning.

Communication:

- Enrich understanding using math journals.
- Design journal questions to reinforce curricular goals.

Connections:

- Integrate math with literature and science.
- Develop number sense and make connections among rational numbers.

Representation:

- Explore place value in a new way using number bases.
- Investigate interesting and unique graphic representations.



Hope Martin

Incorporate exciting, hands-on activities without sacrificing mathematics content!

NEW!

**Prime Presentations
(888) 917-3950**

**Mathematics
Grades 5-8
2 Days**