

Geometric Adventures

to promote student understanding

Don't just tell them what you want them to know! Ask effective questions using techniques that help students give meaning to their learning and develop critical thinking skills.

A non-threatening 2-day workshop for ALL of your elementary teachers of grades 1 through 5 to learn successful, classroom- tested strategies and activities that will engage students as they develop an understanding of geometry concepts in a standards-based curriculum.

Are your teachers spending as much time exploring and developing geometrical concepts during the school year as they are numbers and operations? An understanding of geometric concepts is essential to develop higher order thinking skills, ensure success on today's high stakes tests, and open doors for understanding of more complex mathematical ideas.

This workshop will empower teachers to return to the classroom with the confidence and knowledge they need to ensure students have the necessary foundation in geometric concepts. Through hands-on activities, teachers will discover how to motivate their students as they discover and understand critical geometric benchmarks of learning.

In This Workshop Your Teachers Will Discover...

The importance of geometry concepts at the elementary level

- * A rich understanding of what geometric concepts students need to know
- * How the van Hiele levels of geometric learning are relevant to the elementary classroom

Investigative strategies and activities

- * Skills to help students meet and surpass required geometric standards of learning
- * Visualization and spatial reasoning to create, identify, describe, build, and draw geometric objects.
- * Analyzation of characteristics and properties of two- and three-dimensional geometric shapes
- * Reasoning skills to develop mathematical arguments about geometric relationships
- * Coordinate geometry to specify points and describe spatial relationships
- * Symmetry and transformations to create and describe two-dimensional shapes and designs

Successful hands-on activities

Utilize inexpensive, effective materials and key geometry manipulatives:

- * Paper, scissors, toothpicks, crayons
- * Geoboards
- * Pattern blocks
- * Tangrams
- * Pentominoes
- * Geometric solids

Successful strategies that promote student understanding

- * Practical lesson strategies and activities that show students how to "remember" concepts learned
- * Effective questioning techniques
- * How to build a community of motivated learners in your classroom
- * Connections among literature, measurement, numbers, operations, and technology (Internet and LOGO)
- * Writing as an important assessment and learning tool
- * Techniques to ensure greater student retention over summer vacation



Judy Christiansen

At last!
Geometric
building blocks
that make sense
at the elementary
level

Mathematics
Grades 1-5
2 days

NEW