



Hope Martin

Making Mathematics *Come Alive* for Young Scholars: Connections Between Math & Literature

Help your students **make sense of abstract and perplexing math concepts** by using manipulatives, games, and connections to children's literature.

A 2-day workshop designed specifically for K through 4 teachers who want to nurture and encourage children's existing sense of math concepts through their enjoyment of fun stories and games

At last! A workshop that makes connections between the "Big Ideas" of math and children's literature!

Research shows that young children arrive at school with a clear sense of simple math concepts. They can *equally share with their friends*, find how much they *have all together*, compute how much *more or less* they have, and informally quantify their world. When they get to school they learn that *school math* is often only a collection of rules to be memorized.

In this two-day workshop, you will use **manipulatives, games, and activities that will fascinate your students**. Using literature as a connection to the real world, you will learn how to make **school math a sense-making experience for** K-4 students. Together we will investigate the NCTM *Principles and Standards for School Mathematics* that focus on Patterns, Number Sense and Numeration, Data Collection and Chance, Logic, Measurement, Geometry, and Spatial Sense. Learn to make mathematics a powerful, exciting experience for young students.

In This Workshop You Will Discover:

A new way to look at "Basic Math"

- The "Big Ideas" or themes of early mathematics
- Why there is a need for change
- The true meaning of *Numerical Power*
- Connections between math & numerical power

Games that develop number sense

- Create card games
- Make your own manipulatives
- Use number cubes and dominoes

Connections between math & literature

- Investigate concepts of money, measurement, geometry, probability, number concepts, and more
- Develop a firm understanding of fraction concepts

How to make sense of data collection

- *Delicious* data collection activities
- Real-world warm-ups to start the day
- Connections to science

Exciting estimation & measurement activities

- Utilize student-generated estimations
- Develop measurement benchmarks using standard & nonstandard units

The meaning of "Fairness" in Probability

- Relate concepts of chance to literature
- Use spinners, coins, and number cubes
- Understand vocabulary: *never, always, probably*

The importance of geometry

- Van Hiele's theories to explain the importance of informal geometry activities
- Tangrams and captivating books to promote the exploration of geometric shapes

Cooperative Logic activities

- Learn to *communicate mathematically*
- Problem solve through teamwork

Prime Presentations
(888) 917-3950

Mathematics
Grades K-4
2 Days