



Karyn Hodgens

Algebraic Thinking is Elementary: Generate Algebra Power in Your Students Right From the Very Start!

Discover strategies that strengthen and develop students' conceptual understanding of mathematics and move them to the next level . . . algebraic thinking for primary learners!

*A 2-day workshop for teachers of grades K through 2, elementary math specialists, administrators, and parents who are interested in providing students with a **concrete foundation on which to build more abstract mathematical ideas***

From the concrete to the abstract . . . taking young minds into the world of algebra

As elementary teachers, we have an opportunity to shape our students' attitudes about math. Even more critically, we have the awesome responsibility of developing a mathematical foundation that will enable *all* of our students to be *successful* in math. This goal is within our grasp. Our methods of teaching at this level are the key to our students' future success in mathematics.

Learn how to help **each student discover the mathematician within**, as their concrete experiences are developed into more abstract ideas. Discover how to differentiate your math curriculum so that all students are encouraged and challenged. Return to your classroom understanding the power of algebraic thinking and how the study of algebra truly begins in the primary grades.

Workshop Highlights:

Build the Foundation of Algebraic Thinking in the Primary Grades:

- Develop number sense using concrete activities.
- Reinforce mathematical concepts quickly and conveniently with *Pocket Chart Math*.™
- Discover ways to utilize students' interest in games to reinforce mathematical concepts.
- Weave data analysis into comparison stories.
- Build on students' intuitive ideas about fractions.
- Discover the power of manipulatives in exploring expressions and equations.
- Explore patterns and functions the fun way using rubber stamps and stickers.
- Promote students' accurate use of mathematical vocabulary.

Incorporate 2- and 3-Dimensional Geometry:

- Use hands-on geometry activities to help students describe their world.
- Tie fractional ideas to geometric concepts.

Integrate Real-World Applications:

- Relate classroom math to students' everyday world through rich problem-solving activities.
- Learn how to take advantage of "teachable" moments to incorporate important mathematical concepts.

Promote Higher-Order Thinking:

- Build on students' intuitive ideas about math.
- Discover how to ask just the right questions to encourage students to *think*.
- Differentiate activities to meet the needs of *all* students.

Assess Student Work using Portfolios:

- Motivate students to learn through "powerful portfolios."
- Build on portfolio activities throughout the year.

Enhance the Curriculum with Content-Rich Activities:

- Explore operations on whole numbers.
- Express numeric relationships using relation symbols, $<$, $>$, and $=$.
- Find the missing number in equations with variables.
- Locate and plot points on a coordinate grid.
- Explore number theory and properties of numbers.
- Discover how to become proficient in making reasonable estimates.

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Mathematics
Grades K-2
2 Days