



Carol McGehe

Strategies to Teach Algebra for All

*Discover how algebraic concepts are successfully being taught to **positively impact students** across a wide range of ages and ability levels.*

A 2-day workshop for middle school and high school mathematics teachers of grades 6 through 10 who want classroom-tested strategies that motivate and engage all students

Now you can motivate all your students to effectively master algebraic concepts!

The move is on, sometimes mandated, sometimes by choice, to teach algebra to all students. The good news is that algebraic concepts can be effectively taught to every student while increasing self confidence. **Discover how to plan rich lessons** that allow each student to explore algebraic concepts, to encounter practical applications, and to experience enrichment activities. This workshop provides practiced and proven classroom strategies that engage both concrete and abstract learners across a wide range of ages and ability levels.

Break down the barriers which keep some of your students from succeeding with algebraic topics. Learn why students come to you with certain misconceptions and what you can do to unravel their confusion. When you leave this workshop, you will take with you well-planned activities, ready-to-use student handouts, templates, and resources that you can **immediately use in your classroom.**

Algebra topics incorporating manipulatives & technology:*

- Operations on the set of integers
- Ratio and proportion
- Substitution
- Combining like terms
- Patterns leading to function rules
- Generalizations vs. specific cases
- Equation solving
- Adding and subtracting polynomials
- Multiplying binomials
- Factoring
- Difference of two squares
- Functions and function notation
- Interpreting graphs
- Slope-intercept form of linear equations
- Translating data into algebraic models
- Perimeter, area, and circumference
- One-variable statistics
- Spreadsheet applications
- Analyzing multiple representations of data
- Graph exploration
- Line of best fit
- Statistics

This workshop is for you if you. . .

- need to participate in an honest discussion of when the use of manipulatives and calculators is appropriate and when it is not.
- are skeptical about the use of manipulatives and/or graphing calculators with the students you teach.
- believe manipulatives and technology should be included in your lessons, but are not confident in using them.
- question how older students will respond to using hands-on materials.
- wonder how you can manage difficult students who have manipulatives or graphing calculators in their hands.
- need strategies for the transition from a physical model to its abstract symbolic representation.

*As one inspects the topics above, the typical reaction is to think of them as topics exclusively for formal algebra. Although that is true, today's frameworks and standards are requiring us to inspect these topics at a wide range of grade levels and with students who have a wide range of experiences and abilities, from low functioning to gifted and talented. One of the most frequent remarks we receive on our evaluations is that we succeed in addressing such topics in a manner that is applicable to serve this wide range of students in grades six through ten.

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

**Mathematics
Grades 6-10
2 Days**