



Larry Burke

# Algebra Comes Alive Through Real-World Connections!

Energize your teaching of algebra with **student-approved activities** that are ready to use “Monday morning!”

A 2-day workshop for teachers of mathematics in grades 6 through 10 to make algebra relevant for all students

When am I ever going to use algebra?!

This workshop is for you if you . . .

- enjoy algebra but your students do not.
- believe that we really do use algebra in the real world.
- are tired of teaching “algebra without meaning.”
- have a goal to connect mathematics to other disciplines.
- want to feel energized in your teaching.

Students most often perceive algebra to be a collection of processes to be memorized which are completely unrelated to their own lives. Many leave algebra classes frustrated, seeing no connection to anything meaningful.

In this workshop you will gain strategies to teach algebraic concepts to *all* of your students by connecting algebra to the real world with activities that are mathematically rich and very teacher-friendly. You will **realize a sense of fulfillment** as you “connect” with your students while they discover the relevance of algebra in the world around them.

## Specific algebraic topics addressed...

- Operations on the set of integers
- Ratio and proportion
- Measurement
- Exponents: positive, negative, and fractional
- Combining like terms
- Solving linear and quadratic equations using multiple strategies
- Working with formulae
- Translating data into algebraic models
- Functions
- Graphing
- Connections to plane and solid geometry
- Operations on polynomials
- Factoring
- Systems of equations
- Line of best fit
- Real-life problem solving

## You Will Discover:

- How to successfully reach students using *mathematically-rich* activities and labs
- How to incorporate content-rich activities into a traditional algebra course
- How to connect mathematics to other disciplines
- Ideas for converting traditional algebra experiences into hands-on labs
- Connections between algebraic and geometric concepts
- The effective use of multiple representations to reinforce the same concept
- Activities that promote algebraic connections to the real world
- Creative ideas to energize your teaching
- How to use common household items to conduct mathematical experiments
- Practiced and proven classroom strategies to teach algebra to all students

Prime Presentations  
(888) 917-3950

Mathematics  
Grades 6-10  
2 Days