

Algebra Mastery Through Relevant Applications in Grades 6-10

This kit is designed to increase algebra achievement by helping teachers think about instruction and lessons in a different and exciting way. Forty-two strategies are presented for teaching and learning algebra in ways that engage students. Also included are 20 professional development activities and 36 Gold Seal Lessons focused on algebra. The use of the Rigor/Relevance Framework as a tool for developing highly relevant lessons is explained. In addition, the kit provides an overview of research on why students struggle with algebra as well as detailed directions for integrating mathematical inquiry. Three chapters have accompanying videos, and a CD contains teaching masters, student handouts, and tools for staff development.

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Resource Kit

#K-07-ALG
\$295



CD and DVDs

A CD contains Chapters 4 and 6, the full text of all Gold Seal Lessons in Chapter 7, and several other items.

DVD #1 has a 50-minute presentation by Dr. Willard R. Daggett entitled *Global Competition in Math and Science*.

DVD #2 has a 35-minute presentation by Dr. Richard D. Jones, Introduction to the *Rigor/Relevance Framework*, and the 11-minute math inquiry, *How Much Does a Triangle Cost These Days?*, presented by Dr. Dan Hurwitz.

Table of Contents

Chapter 1: Algebra for a New Generation presents the reality of the 21st century classrooms. Algebra is a priority for K-12 education.

Chapter 2: Rigor/Relevance Framework™ provides an overview of the Framework and examples of how it applies to algebra curriculum. The chapter gives examples of typical lessons and shows how they can be adapted to Quadrant D.

Chapter 3: Struggling Students delves into the research around learning styles and how students learn algebra. This research supports the need to make learning algebra more relevant.

Chapter 4: Strategies for Teaching and Learning Algebra offers 42 strategies that can be used in math class. The strategies, developed and implemented by math teachers, are categorized by literacy, learning styles, student engagement, instruction, and administration.

Chapter 5: Mathematical Inquiry describes this instructional strategy in detail. This approach encourages setting up experiences in math class that allow students to test hypothesis and communicate mathematically.

Chapter 6: Professional Development Activities has tools for teachers and administrators to evaluate current programs and plan the future direction of the school's math program. There are 20 activities and five best practices that can be implemented to raise awareness of the need to hold high expectations for all students.

Chapter 7: Gold Seal Lessons has 36 Gold Seal Lessons that were developed based on the Rigor/Relevance Framework. The majority are high rigor/high relevance (Quadrant D). These lessons, created and implemented by math teachers, can be replicated and/or adapted for classroom use.

There are two **Appendices** in the resource kit. The first one describes the Quantile Framework® for Mathematics, a tool for measuring mathematical ability. The second one explains the I CAN Learn® Education Program, an interactive, computer-based experience that individualizes instruction. Each has specific tools and measures for algebra.

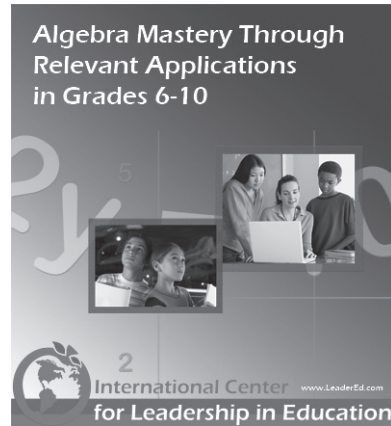


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