

**Bibliography of Materials**  
**Available from AEA9 Media Center**  
**On *Middle School and High School Algebra***  
**January 2005**

**Professional Books and CD's:**

**ALGEBRA IN A TECHNOLOGICAL WORLD**

PROF. BOOK, JS, NATIONAL COUNCIL OF TEACHERS OF MATH, 1997  
Addenda Series grades 9-12 Curriculum and Evaluation Standards for School  
Mathematics. PROFESSIONAL BOOK MA93434 ++++

**ALGEBRA THINKING FIRST EXPERIENCES**

512.07, CHARLES, L, PROFESSIONAL BOOK, A, 124 Pages, WRIGHT GROUP,  
CREATIVE PUBLISH, 1990

This binder contains algebra activities for grades 5-8. There are 8 sections of activities  
designed to help middle school students think logically and algebraically.

PROFESSIONAL BOOK MA90276 +++

**ANALYZING TEACHING**

PROFESSIONAL CD, A, C, ASCD, 2003

Renumbered from former number 82169. Disc One - 3rd Grade Language Arts- Elizabeth  
Kurubas teaches paragraph structure to her bilingual students; 12th Grade Social Studies-  
Steven Ngo uses the RAFT (Role/Audience/Format/ Topic) strategy as he teaches his  
class studying the history of the Americas. Disc Two - 7th Grade English -Julia  
Leamancyk uses a LINCNS strategy to teach vocabulary concepts. 9th Grade Algebra 1 -  
Amy Beatty uses a problem-solving strategy to help her students understand algebraic,  
geometric, and numeric equations. PROFESSIONAL CD 46002 +

**GROUNDWORKS ALGEBRA PUZZLES AND PROBLEMS GRADE 7**

GREENES, PROFESSIONAL BOOK, A, 120 Pages, CREATIVE PUBLISH, 1998

This book makes key connections between arithmetic & algebra & develops the six big  
ideas of algebra: representation, proportional reasoning, balance, variable, function, &  
inductive reasoning. PROFESSIONAL BOOK MA93288 ++++

**GROUNDWORKS ALGEBRA PUZZLES AND PROBLEMS GRADE 6**

GREENES, PROFESSIONAL BOOK, A, 120 Pages, CREATIVE PUBLISH, 1998

This book makes key connections between arithmetic & algebra & develops th six big  
ideas of algebra : representation, proportional reasoning, balance, variable, function, &  
inductive reasoning. PROFESSIONAL BOOK MA93285 ++++

### **GROUNDWORKS ALGEBRA PUZZLES AND PROBLEMS GRADE 5**

GREENES, PROFESSIONAL BOOK, A, 120 Pages, CREATIVE PUBLISH, 1998

This book makes key connections between arithmetic & algebra & develops the six big ideas of algebra: representation, proportional reasoning, balance, variable, function, & inductive reasoning. PROFESSIONAL BOOK MA93282 ++++

### **NAVIGATING THROUGH ALGEBRA IN GRADE 6-8**

512.07, FRIEL, S, PROFESSIONAL BOOK, A, 90 Pages, NCTM, 2001

Demonstrates how some of the fundamental ideas of algebra can be introduced, developed & extended. Includes CD-ROM. PROFESSIONAL BOOK MA92821 ++++

### **NAVIGATING THROUGH ALGEBRA IN GRADE 9-12**

372.7, BURKE, M, PROFESSIONAL BOOK, A, 86 Pages, NCTM, 2001

Addresses algebra as a language of process, expands the notion of variable and develops the representation of functions. Provides blackline masters and a CD-ROM. PROFESSIONAL BOOK MA92330 ++++

### **REAL WORLD ALGEBRA**

512., ZACCARO, E, PROFESSIONAL BOOK, A, 310 Pages, HICKORY GROVE PRESS, 2001

Subtitle: Understanding the Power of Mathematics. This book explains the algebraic process in an easy to understand format using cartoons and drawings. Grades 4-9 PROFESSIONAL BOOK MA98508 +++

### **TEACHING MATHEMATICS CONTEXTUALLY**

372.7, PROFESSIONAL BOOK, A, 61 Pages, CORD, 1999

Subtitle: The Cornerstone of Tech Prep. This book explains how to teach math, including algebra & geometry using the CORD principles. PROFESSIONAL BOOK MA92092 ++++

### **Professional Videos:**

#### **ALGEBRA 1 (COMPARING DATA)-MIDDLE SCHOOL**

PROFESSIONAL VIDEO, A, 12 min., C, ASCD, 2001

Algebra I students use box-and-whisker plots to analyze and compare data that they can apply to an imaginary business scenario. From the Lesson Collections series.

PROFESSIONAL VIDEO 90041 ++++

#### **ALGEBRA I (PATTERNS AND EQUATIONS) HIGH SCHOOL**

PROFESSIONAL VIDEO, A, 14 min., C, ASCD, 2003

This video is one in a series of the (lesson Collection) program. It is specifically designed to provide teachers with practical examples of the teaching - learning experience. Lesson Collection Series. PROFESSIONAL VIDEO 90297 ++++

## **ALGEBRA II (SERIES & SEQUENCES)-HIGH SCHOOL**

PROFESSIONAL VIDEO, A, 13 min., C, ASCD, 2001

In this lesson, Algebra II students discover the practical application of exploring number patterns and developing formulas. From the Lesson Collection series.

PROFESSIONAL VIDEO 90042 +++++

## **INSIGHTS INTO ALGEBRA 1**

PROFESSIONAL VIDEO, A, 480 min., C, ANNENBERG/CPS, 2004

This professional development workshops combined video clips recorded in real classrooms with useful suggestions from practicing teachers and content specialists.

Annenberg/ CPB channel.

PROFESSIONAL VIDEO 90525

## **INVENTING NOTATIONS**

PROFESSIONAL VIDEO, A, 60 min., C, ANNENBERG/CPB, 2001

CC - Tape 3 in the series Private Universe Project in Mathematics. We learn how to foster and appreciate students' notations for their richness and creativity. We also look at some of the possibilities that early work in creating notation systems might open up for students as they move on toward algebra. 1 video and guide.

PROFESSIONAL VIDEO 90008 +++++

## **MATHLINES MIDDLE SCHOOL MATH PROJECT ALGEBRA**

PROFESSIONAL VIDEO, A, 54 min., C, PBS VIDEO, 1997

CC - Tape Four Grade 5-8. Contents: Aw Chute and In A Heartbeat. Mathline Series

PROFESSIONAL VIDEO 90253 +++++

## **Curriculum Materials:**

### **AGS ALGEBRA 2004**

CURRICULUM MATERIAL, IJS, AMERICAN GUIDANCE SERVICE, 2004

Interest level: Grades 6-12 ABE, ESL. Reading Level 3.5 Pache.

CURRICULUM MATERIAL XX83108 +++++

### **ALGEBRA**

CURRICULUM MATERIAL, JS, PRENTICE HALL, 2002

1 Book - Student Edition

CURRICULUM MATERIAL XX35119 +++++

### **ALGEBRA 1**

CURRICULUM MATERIAL, JS, PRENTICE HALL, 2004

36 Books - Student Edition and TE 34 Resource materials(4 Spanish), 2 CD and video.

CURRICULUM MATERIAL XX35120 +++++

### **ALGEBRA 1 2ND EDITION**

CURRICULUM MATERIAL, S, CPM - COLLEGE PREPARATORY

MATHEMATICS, 2002

3 Books. Student Edition, Parent Guide, CD-Rom and TE.  
CURRICULUM MATERIAL XX37123 +++++

**ALGEBRA 1 AN INCREMENTAL DEVELOPMENT**

CURRICULUM MATERIAL, J, SAXON PUBLISHERS, 2003  
TE and resources. CURRICULUM MATERIAL XX35158 +++++

**ALGEBRA 1 EQUATIONS-APPLICATIONS**

CURRICULUM MATERIAL, JS, MCDUGAL, LITTELL, 2004  
Teacher Edition, Student Edition and Notetaking Guide are 2004 Copyright Year.  
However Sample of program components-and (11 Chapter Resource Books are copyright  
2001) CURRICULUM MATERIAL XX35320 +++++

**ALGEBRA 11 AN INCREMENTAL DEVELOPMENT**

CURRICULUM MATERIAL, JS, 1997  
1 book. CURRICULUM MATERIAL XX37195 +++++

**ALGEBRA 2**

CURRICULUM MATERIAL, JS, PEARSON, PRENTICE HALL, 2004  
2 Books - Student Edition and Teacher's Edition, 16 Resources Books, and Overhead  
Manipulative Kit. CURRICULUM MATERIAL XX37059 +++++

**ALGEBRA 2 2ND EDITION**

CURRICULUM MATERIAL, S, CPM - COLLEGE PREPARATORY  
MATHEMATICS, 2002  
4 Books. Student Edition - 2 volumes, Parent Guide, CD-Rom, and TE.  
CURRICULUM MATERIAL XX37124 +++++

**ALGEBRA 2 EQUATIONS-APPLICATIONS**

CURRICULUM MATERIAL, JS, MCDUGAL, LITTELL, 2004  
3 Books - Teacher Edition, Student Edition, and Notetaking Guide Book.  
CURRICULUM MATERIAL XX35322 +++++

**ALGEBRA 2 - HOLT**

CURRICULUM MATERIAL, S, HOLT RINEHART AND WINSTON, 2004  
2 Books. Student Edition and TE. CURRICULUM MATERIAL XX37066 +++++

**ALGEBRA AGS**

CURRICULUM MATERIAL, IJS, AMERICAN GUIDANCE SERVICE, 1998  
2 Books. Student Workbook and TWE. Interest level: Grades 6-12, ABE, ESL. Reading  
Level: 3.5 Spache. CURRICULUM MATERIAL XX83104 +++++

**ALGEBRA AND TRIGONOMETRY-FOURTH EDITION**

CURRICULUM MATERIAL, JS, HOUGHTON MIFFLIN, 2005  
ALGEBRA AND GEOMETRY - FOURTH EDITION - A Graphing Approach. 1  
Instructor's Annotated Edition and 1 Student Edition. MATERIAL XX37060 +++

**ALGEBRA AND TRIGONOMETRY-SIXTH EDITION**

CURRICULUM MATERIAL, JS, HOUGHTON MIFFLIN, 2004

ALGEBRA AND TRIGONOMETRY - SIXTH EDITION. 1 Instructor's Annotated Edition, 1 Student Edition and 1 CD. CURRICULUM MATERIAL XX37061 +++

**ALGEBRA ONE INTERACTIONS COURSE 1**

CURRICULUM MATERIAL, J, HOLT RINEHART AND WINSTON, 2001

1 Student Ed, 1 Teacher's Annotation Ed, and 1 Teaching Planning Guide.

CURRICULUM MATERIAL XX35195 ++++

**ALGEBRA ONE INTERACTIONS COURSE 2**

CURRICULUM MATERIAL, J, HOLT RINEHART AND WINSTON, 2001

1 Student Ed, 1 TAE, and teacher planning guide.

CURRICULUM MATERIAL XX35196 ++++

**COGNITIVE TUTOR ALGEBRA II**

CURRICULUM MATERIAL, JS, Carnegie Learning, 2003

1 Book - Teacher's Edition. Please visit the Curriculum Library to view.

CURRICULUM MATERIAL XX37032 ++++

**DISCOVERING ADVANCED ALGEBRA**

CURRICULUM MATERIAL, S, KEY CURRICULUM, 2004

Discovering Advanced Algebra An Investigative Approach. 1 Teacher Edition and 1 Box of Manuals (12 Manuals and 3 CD's) CURRICULUM MATERIAL XX37055 +++

**DISCOVERING ALGEBRA AN INVESTIGATIVE APPROACH**

CURRICULUM MATERIAL, JS, KEY CURRICULUM, 2002

Discovering Algebra An Investigative Approach for Grades 8-10. 1 Teacher Edition, and 1 box of manuals (11 manuals and 4 CD's). CURRICULUM MATERIAL XX35118

+++

**EXPLORATIONS AND PROJECTS BOOK**

CURRICULUM MATERIAL, JS, MCDOUGAL, LITTELL, 2003

For use with Algebra 1 - XX35323 and Algebra 2 - XX35322 and Geometry - XX37010

CURRICULUM MATERIAL XX37010 ++++

**FOUNDATIONS FOR ALGEBRA - PARENT GUIDE**

CURRICULUM MATERIAL, J, CPM - COLLEGE PREPARATORY

MATHEMATICS, 2002

This guide goes with Foundations for Algebra Year 1 (XX37121) and Foundations for Algebra Year 2 (XX37122). CURRICULUM MATERIAL XX35135 ++++

**FOUNDATIONS FOR ALGEBRA YEAR 1**

CURRICULUM MATERIAL, J, CPM - COLLEGE PREPARATORY

MATHEMATICS, 2002

4 Books. Student Edition - 2 volumes, Toolkit book, CD-Rom, TE.  
CURRICULUM MATERIAL XX35133 +++++

**FOUNDATIONS FOR ALGEBRA YEAR 2**

CURRICULUM MATERIAL, J, CPM - COLLEGE PREPARATORY  
MATHEMATICS, 2002

4 Books. Student Edition - 2 volumes, Toolkit Book, CD-Rom, TE.  
CURRICULUM MATERIAL XX35134 +++++

**GLENCO ALGEBRA 2**

CURRICULUM MATERIAL, J, GLENCOE/MCGRAW HILL, 2005

2 Books. Student Edition and TWE Edition.

CURRICULUM MATERIAL XX35145 +++++

**HRW ALGEBRA 1**

CURRICULUM MATERIAL, JS, HOLT RINEHART AND WINSTON, 2004

1 Annotation Teacher's Ed, and 25 resource books. Teacher Edition is 2004. Remaining materials are 2003 copyright. CURRICULUM MATERIAL XX35226 +++++

**IMPACT MATHEMATICS ALGEBRA/ MORE COURSE 3XX35411**

CURRICULUM MATERIAL, I, EVERYDAY LEARNING, 2000

2 Books - 1 Student's Edition and Volume B Teacher's Guide.

CURRICULUM MATERIAL XX35122 +++++

**IMPACT MATHEMATICS ALGEBRA/MORE COURSE 1**

CURRICULUM MATERIAL, IJ, EVERYDAY LEARNING, 2004

1 Student Book and 2 Teacher's Guide. CURRICULUM MATERIAL XX35220 +

**IMPACT MATHEMATICS ALGEBRA/MORE COURSE 2**

CURRICULUM MATERIAL, IJ, EVERYDAY LEARNING, 2000

3 Books - 1 Student Edition and 2 Teacher Guides.

CURRICULUM MATERIAL XX35121 +++++

**INTERMEDIATE ALGEBRA 7TH EDITION**

CURRICULUM MATERIAL, JS, BROOKS/COLE, 2005

1 Book and 1 CD. Gustafson/Frisk Annotated Instructor's Edition. Gustafson and Frisk's proven five-step problem-solving strategy helps break each problem down into manageable segments: analyze the problem, form an equation, solve the equation, state the conclusion, and check the result. CURRICULUM MATERIAL XX35991 +

**INTERMEDIATE ALGEBRA 7TH EDITION**

CURRICULUM MATERIAL, JS, BROOKS/COLE, 2004

1 Book and 1 CD. Annotated Instructor's Edition by Charles P. McKeague. This book is intended for use in a lecture-format class. Each section of the book can be discussed in a 45- to 50-minute class session. CURRICULUM MATERIAL XX35993 +

**MATHEMATICS IN CONTEXT GRADE 6**

CURRICULUM MATERIAL, IJ, HOLT RINEHART AND WINSTON,  
ENCYCLOPEDIA BRITANNICA EDU COR, 2006

Britannica Mathematics in Context has 9 units per level. Number Strand: Models You Can Count On, Fractions Times, and More or Less. Algebra Strand: Comparing Quantities, and Formulas. Geometry and Measurement Strand: Figuring All the Angles, and Re-allotment. Data Analysis and Probability: Picturing Numbers and Taking a Chance. CURRICULUM MATERIAL XX35246 ++++

**MATHEMATICS IN CONTEXT GRADE 7**

CURRICULUM MATERIAL, J, HOLT RINEHART AND WINSTON,  
ENCYCLOPEDIA BRITANNICA EDU COR, 2006

Britannica Mathematics in Context has nine units. Number Strand: Facts and Factors, and Ratios and Rates. Algebra Strand: Building Formulas and Operations. Geometry and Measurement Strand: Made to Measure, Packages and Polygons, and Triangles and Beyond. Data Analysis and Probability Strand: Dealing with Data, and Second Chance. CURRICULUM MATERIAL XX35247 ++++

**MATHEMATICS IN CONTEXT GRADE 8**

CURRICULUM MATERIAL, J, HOLT RINEHART AND WINSTON,  
ENCYCLOPEDIA BRITANNICA EDU COR, 2006

Britannica Mathematics in Context has 9 units per level. Number Strand: Revisiting Number. Algebra Strand: Graphing Equations, Patterns and Figures, Ups and Downs, and Algebra Rules. Geometry and Measurement Strand: It's all the same, and Looking at an Angle. Data Analysis and Probability Strand: Great Predictions, and Insights into Data. CURRICULUM MATERIAL XX35248 ++++

**SAXON ALGEBRA 1/2 GR 8 3RD EDITION**

CURRICULUM MATERIAL, J, SAXON PUBLISHERS, 2000

1 Teacher Edition, 1 teacher resource booklet, 1 teacher resource booklet and a sample test master. CURRICULUM MATERIAL XX35180 ++++

**SAXON ALGEBRA 2**

CURRICULUM MATERIAL, JS, SAXON PUBLISHERS, 2003

An Incremental Development third edition of the second book in a three book series designed to prepare students for calculus. In each book the study of geometry is integrated with the study of algebra in one or two geometry problems appear in every problem set. The geometry problems in Algebra I concentrate on the concepts of area and volume. This book continues practice with area and volume problems and introduces more abstract geometric concepts. 4 Items CURRICULUM MATERIAL XX35181 +

**SKILLS INTERVENTION FOR ALGEBRA**

CURRICULUM MATERIAL, IJ, GLENCOE/MCGRAW HILL

Skills Intervention for Algebra. Diagnosis and Remediation.  
CURRICULUM MATERIAL XX83132 +

## **TEACHING ALGEBRA WITH MANIPULATIVES**

CURRICULUM MATERIAL, A, GLENCO PUBLISHING COMPANY, 2003

1 Book for use with Glencoe Algebra 1- XX35143 and Algebra 2- XX35145.

CURRICULUM MATERIAL XX35146 +++++

### **WEB SITES:**

<http://mathforum.org/students/high/> Math Forum for high school students.

[http://www.awesomelibrary.org/Classroom/Mathematics/Middle-High\\_School\\_Math/Middle-High\\_School\\_Math.html](http://www.awesomelibrary.org/Classroom/Mathematics/Middle-High_School_Math/Middle-High_School_Math.html) Awesome Library has links to middle school and high school math topics

[http://www.homeschoolmath.net/math\\_resources\\_4.php](http://www.homeschoolmath.net/math_resources_4.php) Links to tutorials, games, activities, worksheets and more.

[http://www.wcps.net/evaluation-research/reports/earlier\\_years/9608students\\_algebra\\_midsc.pdf](http://www.wcps.net/evaluation-research/reports/earlier_years/9608students_algebra_midsc.pdf) Article entitled, *Should students take Algebra I in Middle School?*

[http://www.emteachline.com/eng/index\\_bookdemo.htm](http://www.emteachline.com/eng/index_bookdemo.htm) Online math site to review solutions for various math problems.

<http://www.carnegielearning.com/> Information on Cognitive Tutor.

<http://help4teachers.com/samples.htm> Samples of layered curriculum units.

<http://www.naesp.org/ContentLoad.do?contentId=550> Article entitled, *Preparing Middle-grade students for Algebra*

[http://www.glencoe.com/sec/teachingtoday/subject/project\\_based.phtml](http://www.glencoe.com/sec/teachingtoday/subject/project_based.phtml) Article entitled, *Project-based Learning in Middle and High School Mathematics Classroom*