



# AAAS Project 2061 Algebra Textbooks Evaluation

Summary of Instructional Analysis Ratings for <i>Mathematics: Modeling Our World (COMAP/ARISE)</i> South-Western Educational Publishing, 1998	Idea Set		
Instructional Categories	Functions	Variables	Operations
<b>I. IDENTIFYING A SENSE OF PURPOSE</b>			
Conveying Unit Purpose	■	■	■
Conveying Lesson Purpose	■	■	□
Justifying Sequence of Activities	■	■	■
<b>II. BUILDING ON STUDENT IDEAS ABOUT MATHEMATICS</b>			
Specifying Prerequisite Knowledge	■	■	■
Alerting Teacher to Student Ideas	■	■	■
Assisting Teacher in Identifying Ideas	■	■	□
Addressing Misconceptions	■	■	■
<b>III. ENGAGING STUDENTS IN MATHEMATICS</b>			
Providing Variety of Contexts	■	■	□
Providing Firsthand Experiences	■	■	■
<b>IV. DEVELOPING MATHEMATICAL IDEAS</b>			
Justifying Importance of Standards Ideas	■	■	□
Introducing Terms and Procedures	■	■	■
Representing Ideas Accurately	■	□	■
Connecting Standards Ideas	□	■	□
Demonstrating/Modeling Procedures	□	■	□
Providing Practice	■	■	■
<b>V. PROMOTING STUDENT THINKING ABOUT MATHEMATICS</b>			
Encouraging Students to Explain Their Reasoning	■	■	■
Guiding Interpretation and Reasoning	■	■	□
Encouraging Students to Think about What They've Learned	■	■	■
<b>VI. ASSESSING STUDENT PROGRESS IN MATHEMATICS</b>			
Aligning Assessment	■	■	□
Assessing through Applications	■	■	■
Using Embedded Assessment	■	■	■

■ Poor: 0-1.4      □ Fair: 1.5-1.9      □ Satisfactory: 2-2.4      ■ Good: 2.5-2.9      ■ Excellent: 3