AAAS Project 2061 Algebra Textbooks Evaluation

TEXTBOOKS *WITH THE POTENTIAL* FOR HELPING STUDENTS LEARN ALGEBRA

Summary of Instructional Analysis Ratings for Algebra Textbooks

Instructional Categories	**Concepts in Algebra** *Everyday Learning Corporation, 1999*	**Contemporary Mathematics in Context (CORE-Plus)** *Everyday Learning Corporation, 1998*	**Focus on Algebra** *Addison Wesley Longman, 1998*	**Interactive Mathematics Program (IMP)** *Key Curriculum Press, 1997-1999*	**MATH Connections: A Secondary Math Core Curriculum** *It's About Time, Inc., 1998*	**Mathematics: Modeling Our World (COMAP/ARISE)** *South-Western Educational Publishing, 1998*	**UCSMP Algebra** *Scott, Foresman and Company, 1998*
	TEXTBOOK SERIES						
I. IDENTIFYING A SENSE OF PURPOSE							
Conveying Unit Purpose	☐	◒	■	◓	■	◓	☐
Conveying Lesson Purpose	◒	◒	◒	◒	◒	◓	■
Justifying Sequence of Activities	◓	◓	☐	◘	◓	◓	◓
II. BUILDING ON STUDENT IDEAS ABOUT MATHEMATICS							
Specifying Prerequisite Knowledge	■	◒	☐	◒	■	■	■
Alerting Teacher to Student Ideas	■	■	■	■	■	■	◓
Assisting Teacher in Identifying Ideas	■	■	■	◒	■	■	■
Addressing Misconceptions	■	◒	■	◒	■	■	◒
III. ENGAGING STUDENTS IN MATHEMATICS							
Providing Variety of Contexts	◓	◓	◓	◓	◓	◓	◓
Providing Firsthand Experiences	☐	◓	◓	☐	☐	◓	☐
IV. DEVELOPING MATHEMATICAL IDEAS							
Justifying Importance of Standards Ideas	☐	☐	◒	☐	☐	☐	◒
Introducing Terms and Procedures	◓	◓	◓	◓	◓	◓	◓
Representing Ideas Accurately	◓	☐	◓	☐	☐	◓	◓
Connecting Standards Ideas	◒	☐	☐	◒	■	■	■
Demonstrating/Modeling Procedures	◓	■	◓	■	◓	■	◓
Providing Practice	◓	◓	◓	◓	◘	◓	◓
V. PROMOTING STUDENT THINKING ABOUT MATHEMATICS							
Encouraging Students to Explain Their Reasoning	■	◒	■	☐	◒	◒	■
Guiding Interpretation and Reasoning	◓	◓	☐	◘	◓	☐	◒
Encouraging Students to Think about What They've Learned	■	☐	■	◒	■	■	■
VI. ASSESSING STUDENT PROGRESS IN MATHEMATICS							
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