



AAAS Project 2061 Algebra Textbooks Evaluation

Summary of Instructional Analysis Ratings for <i>Integrated Mathematics: A Modeling Approach Using Technology (SIMMS)</i> Simon & Schuster Custom Publishing, 1996-1998	Idea Set		
Instructional Categories	Functions	Variables	Operations
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