

Typical Sightings for *MATH Connections*

| CRITERION | Average Instructional Ratings | | | | | | | | BOOK | PAGE(S) | ACTIVITY | IDEA SET |
|--|-------------------------------|-----|-----|-----|-----|-----|-----|--|----------------|---------------------------|--|------------|
| | 0 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | | | | | |
| I.1 Conveying Unit Purpose | | | | | | | | | 3a | 69 | Exponential Functions – Opening paragraph | Functions |
| I.2 Conveying Lesson Purpose | | | | | | | | | 3a | 3 | Learning Outcomes | Functions |
| I.3 Justifying Sequence of Activities | | | | | | | | | 3a | T-1 | Algebraic Functions – Opening paragraphs | Functions |
| II.1 Specifying Prerequisite Knowledge | | | | | | | | | 2b | 493 | Opening paragraph | Operations |
| II.2 Alerting Teacher to Student Ideas | | | | | | | | | 1a | T-43; T-54 | Welcome to Algebra; 2.3 Laws of Algebra | Variables |
| II.3 Assisting Teacher in Identifying Ideas | | | | | | | | | 1a | 87 (ref. Page v) | #2.16 | Variables |
| II.4 Addressing Misconceptions | | | | | | | | | 1b | T153-154 | It All Depends | Functions |
| III.1 Providing Variety of Contexts | | | | | | | | | 1a | 112 –120/T-60, T62-T66 | #2.41-2.45; Problem Set 2.4 | Operations |
| III.2 Providing Firsthand Experiences | | | | | | | | | 2b | 481-492/ T-255-T256 | Systems of Equations and Graphs | Operations |
| IV.1 Justifying Importance of Standards Ideas | | | | | | | | | 1a | 77-79 | Abbreviations All Around Us | Variables |
| IV.2 Introducing Terms and Procedures | | | | | | | | | 1b | 346-347 | Example 3 | Functions |
| IV.3 Representing Ideas Accurately | | | | | | | | | 1b | 314-317 | #5.51–5.54 | Operations |
| IV.4 Connecting Standards Ideas | | | | | | | | | 3a | T12-13 | Finding the Inverse – Opening paragraph | Functions |
| IV.5 Demonstrating/Modeling Procedures | | | | | | | | | 2b | 512-515 | #6.27-6.30 | Variables |
| IV.6 Providing Practice | | | | | | | | | 1a | 112-120 | #2.41-2.45; Problem Set 2.4 | Operations |
| V.1 Encouraging Students to Explain Their Reasoning | | | | | | | | | 1a | 90-91 | #1b-c, 2b-c, 3 | Variables |
| V.2 Guiding Interpretation and Reasoning | | | | | | | | | 2b | 511-522 | Opening paragraphs; #6.27-6.30 | Variables |
| V.3 Encouraging Students to Think about What They've Learned | | | | | | | | | 1b | 324-325 | Reflect | Variables |
| VI.1 Aligning Assessment | | | | | | | | | 1a Assessments | 2, 4 | Quiz 2.3-2.4 (A) #5, 10 | Operations |
| VI.2 Assessing through Applications | | | | | | | | | 1a Assessments | 4-5 | Quiz 2.3-2.4 (A) #11 | Operations |
| VI.3 Using Embedded Assessment | | | | | | | | | 1a | 111-114 | #2.40, 2.43, 2.45 | Operations |