Frogs, Fleas, and Painted Cubes -- Unit Planning Overview

Investigations & Assessments	Days	Materials for Students	Materials for Teachers	ACE Questions	Miscellaneous
1. Introduction to Quadratic Relationships *Read TE p. 18 a-q*	4	String tiles, square tiles (50/group) optional Graphing calculators	1.1A-1.3	1.1: #3, 4, 11 1.2: #5, 7-9 1.3: #1, 2, 6, 10, 12	
Check-Up 1	1	Copies of p. 87-88			Answers on p. 101-102
2 Quadratic Expressions *Read TE p. 40 a-cc*	6	Copies of Labsheet 2.4 (1/student) Grid paper Graphing calculators	2.1 – 2.4B Transparent grid Transparency of Labsheet 2.4 (optional)	2.1: #1, 2, 32, 35 2.2: #3, 33, 34, 36 2.3: #4-8, 22-26, 37, 40-43 2.4: #9-21, 27-31, 38, 39, 44-46	
Check-Up 2	1	Copies of p. 89			Answers on p. 102-103
3 Quadratic Patterns of Change *Read TE p. 51 a-m*	4	Grid paper Graphing calculator	3.1A – 3.2	3.1: #1, 9-13, 15, 17 3.2: #2-8, 14, 16, 18, 19	
4. What Is A Quadratic Function? *Read TE p. 70 a-q*	4	Grid paper Copies of Labsheet 4.3A & 4.3B (1/student) Graphing calculator	4.1-4.3B Balls, stopwatch, motion detector (all optional)	4.1: #1, 2, 11-15, 19 4.2: #3, 9, 16-18, 26-28 4.3: #4-8, 10, 20-25	
Quiz	1	Copies of p. 90-92			Answers on p. 103-104
5. Painted Cubes *Read TE 84 a-p*	4	Grid paper Cubes (4 different colors) Graphing calculators	5.1A-5.2 Rubik's cube, base 10 thousands block or other large cube (all optional)	5.1: #1, 5, 7-13 5.2: #2-4, 6, 14-25	
Self-Assessment	Take Home	Copies of p.100			
Unit Test	1	Copies of pages 96-98			Answers on p. 106-107