

Algebra I Curriculum 2007-08

Chapter 1

- 1.1 – Variables and Expressions
- 1.2 – Evaluating Expressions
- 1.3 – Open Sentences
- 1.4 – Identity and Equality Properties
- 1.5 – Distributive Property
- 1.6 – Commutative and Associative Properties
- 1.7 – Formulas
- 1.8 – Explore Verbal Problems, Honors Only

Brief Review of integers

General introduction to using the TI-83

Chapter 3 – Solving Equations

- 3.1 – 3.3, One Step Equations
- 3.5 – Two Step Equations
- 3.6 – Variables on both sides
- 3.7 – More Equations

Chapter 9 – Functions and Graphs

- 9.1 – Ordered Pairs
- 9.2 – Relations
- 9.3 – Equations as Relations
 - Supplemental worksheet – Solving for variables in two-variable equations

Quiz

- 9.4 – Graphing Linear Relations
- 9.7 – Finding Equations from Relations

Chapter 10 – Graphing Linear Equations

- 10.1 Slope of a Line
- 10.2 Point-Slope Form, Standard Form
- 10.3 Slope-Intercept Form
- 10.4 Graphing Linear Equations
- 10.5 Writing Slope-Intercept Equations of Lines
- 10.6 Parallel and Perpendicular Lines
- 10.7 Midpoint of a Line Segment

Chapter 4 – Rational Numbers

- 4.1 – Ratios and Proportions
- 4.8 – Direct Variation
- 4.9 – Inverse Variation

Chapter 5 – Inequalities

- 5.1 – Solving using Addition and Subtraction

Algebra I Curriculum 2007-08

5.2 – Solving using Multiplication and Division

5.3 – Two Step Inequalities (optional with AC, at a minimum #11-18)

Chapter 6 – Polynomials

6.2, 6.3 – Multiplying & Dividing Monomials

6.4 – Scientific Notation – ½ class, don't spend long

6.5 – Polynomials

6.6 – Adding and Subtracting Polynomials

6.7, 6.8 – Multiplying Polynomials

6.9 – Special Products, #10-29 (or as far as possible)

Chapter 7 – Factoring

7.1 – Greatest Common Factor

7.2, 7.3 – Factoring using Distributive Property, Grouping

7.5 – 7.7 – Factoring Trinomials, Differences of Squares, Perfect Squares

7.8 – Summary of Factoring

7.9, 7.10 – Solving Equations by Factoring

Chapter 8 – Rational Expressions

8.1 – Simplifying Rational Expressions, use some simple expressions

- Focus on “when can you cancel, when can you not?”

8.2, 8.3 – Multiplying & Dividing Rational Expressions

- Make them simple ones so focus is on concept

Chapter 12 – Radical Expressions

12.2 – Square Roots

- Get across basic concept of a square root, do #18-22, 26-28, 30

12.5 – Simplifying Square Roots

12.6 – Adding and Subtracting Radical Expressions

12.7 – Radical Equations

12.8 – Distance Formula

Notes for Year

Honors – Do Problem Solving Units throughout chapters at your discretion

Use Chapter Reviews