

## ALGEBRA

### 1<sup>st</sup> Quarter

#### **RATIONAL NUMBERS**

- Lesson 1-3 Real Numbers / Absolute Value
- Lesson 2-1 Addition \* focus on properties (skip matrix / skip elements)
- Lesson 2-2 Subtraction \* focus on properties
- Lesson 2-3 Multiplication & Division \* focus on properties
- Lesson 8-2 Scientific Notation
- Lesson 2-4 Distributive Property & Combining Like Terms
- Lesson 2-5 Properties

#### **SOLVING EQUATIONS**

- Lesson 3-1 Solve Equations
- Lesson 3-2
- Lesson 3-3
- Lesson 3-4 \* focus on unit analysis
- Lesson 3-5 \* focus on similar figures and dilation
- Lesson 3-6 Problem Solving: Embed throughout chapter in chunks:  
Consecutive integer; perimeter; uniform motion:  
(same direction/round trip/opposite direction)
- pp. 166–167 Proportions and Percents
- Lesson 3-8 Square Roots SUPPLEMENT CUBE ROOTS
- Lesson 3-9 Pythagorean Theorem

#### **SOLVING INEQUALITIES**

- Lesson 4-1
- Lesson 4-2
- Lesson 4-3
- Lesson 4-4
- Lesson 4-5

### 2<sup>nd</sup> Quarter

#### **GRAPHS AND FUNCTIONS**

- Lesson 5-1 Relating Graphs to Events
- Lesson 1-4 Function Notation (Domain & Range)
- Lesson 5-2 Relations & Functions
- Lesson 5-3 Continuous vs. Discrete
- Lesson 10-8 Linear vs. Quadratic vs. Exponential (Beginning)
- Lesson 5-4 Writing a Function Rule
- Lesson 5-5 Direct Variation
- pp. 140-141 Transforming Formulas

#### **LINEAR EQUATIONS AND GRAPHS**

- Lesson 6-1
- Lesson 6-2
- Lesson 6-3
- Lesson 6-4
- Lesson 6-5
- Lesson 6-6
- Lesson 6-7 Scatter Plots \*focus line of best fit
- Lesson 4-6 Solving Absolute Value Equations ONLY (no inequalities)
- Lesson 6-8 Graphing Absolute Value Equations

**CENTRAL TENDANCY** (December)

Lesson 2-6      Probability  
Lesson 2-7  
pp. 774-775  
pp. 38-39      Interpreting Graphs  
pp. 52-53      Box-and-Whisker  
pp. 426-427    Samples and Surveys  
pp. 546-547  
pp. 769-773

**3<sup>rd</sup> Quarter****SYSTEMS OF EQUATIONS**

Lesson 7-1      By Graphing (one day \*do not emphasize)  
Lesson 7-2      Substitution  
Lesson 7-3      Elimination  
Lesson 7-4      Applications  
Lesson 7-5      Linear Inequalities  
Lesson 7-6      Systems of Linear Inequalities

**EXPONENTS AND EXPONENTIAL FUNCTIONS**

Lesson 8-1  
Lesson 8-3  
Lesson 8-4  
Lesson 8-5  
Lesson 8-7      Exponential Function (Beginning)

**RADICAL EXPRESSIONS**

Lesson 11-1     Simplifying Radicals  
Lesson 11-2     Operations with Radical Expressions

**MARCH ASSESSMENTS****4<sup>th</sup> Quarter****POLYNOMIALS AND FACTORING**

Lesson 9-1  
Lesson 9-2  
Lesson 9-3  
Lesson 9-4      SKIP (Enrichment Only)  
Lesson 9-5      Factoring (Developing)  
Lesson 12-4     Dividing Polynomials (Beginning)  
Lesson 9-6  
Lesson 9-7      SKIP (Enrichment Only)

**QUADRATIC EQUATIONS AND FUNCTIONS**

Lesson 10-1  
P. 605            Cubic Functions  
Lesson 10-2  
Lesson 10-3  
Lesson 10-4     Factoring (Developing)  
Lesson 10-6     Quadratic  
Lesson 10-7     Using the Discriminant