Math 6A

Most chapters contain two main topics that are revisited in different contexts over the course. In addition, homework problems continue to pull from previous as well as current material.

First Trimester—Course 1 Red Book
Chapter 1—Introduction and Representations
Chapter 2—Arithmetic Strategies and Area
Chapter 3—Portions and Integers
Chapter 4—Variables and Ratios

Second Trimester—Course 1 Red Book
Chapter 5—Multiplying Fractions and Area (Parallelogram, Triangle, Trapezoid)
Chapter 6—Dividing and Building Expressions
Chapter 7—Rates and Operations
Chapter 8—Statistics and Multiplication Equations
Chapter 9—Volume and Percents

Third Trimester—Course 2 Blue Book
Chapter 1—Introduction and Probability
Chapter 2—Fractions and Integer Addition
Chapter 3—Arithmetic Properties
Chapter 4—Proportions and Expressions
Chapter 5—Probability and Solving Word Problems

Along with the concepts there are 8 Mathematical Practices embedded in lessons:
1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

There are 12 checkpoints—These happen when a student should have mastered the content (some even in 4th/5th grade). I will typically embed these in quizzes. There are examples and practice problems in the back of the book that students can use as necessary.
1. Using Place Value to Round and Compare Decimals
2. Addition and Subtraction of Decimals
3. Addition and Subtraction of Fractions
4. Addition and Subtraction of Mixed Numbers
5. Multiple Representations of Portions
6. Locating Points on a Number Line and on a Coordinate Graph (+ and -)
7. Multiplication of Fractions and Decimals
8. Area and Perimeter of Quadrilaterals and Triangles
9. Rewriting and Evaluating Variable Expressions
10. Division of Fractions and Decimals
11. Displaying of Data
12. Solving One-Step Equations

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