Draft E5 Curriculum (6-7 Honors Math)

1. Numerical Expressions and Factors
    - Whole number operations
    - Power and Exponents
    - Order of Operations
    - Prime Factorization
    - Greatest Common Factor
    - Least Common Multiple
    - Adding and Subtracting Fractions

2. Fractions and Decimals
    - Multiplying Fractions
    - Dividing Fractions
    - Dividing Mixed Numbers
    - Adding and Subtracting Decimals
    - Multiplying Decimals
    - Dividing Decimals

3. Algebraic Expressions and Properties
    - Algebraic Expressions
    - Writing Expressions
    - Properties of Addition and Multiplication
    - The Distributive Property
    - Factoring Expressions

4. Areas of Polygons
    - Areas of Parallelograms
    - Areas of Triangles
    - Areas of Trapezoids
    - Areas of Composite Figures
    - Polygons in the Coordinate Plane

5. Ratios and Rates
    - Ratios
    - Ratio Tables
    - Rates
    - Comparing and Graphing Ratios
    - Percents
    - Solving Percent Problems
    - Converting Measures

6. Integers and the Coordinate Plane
    - Integers
    - Comparing and Ordering Integers
    - Functions and Decimals on the Number Line
    - Absolute Value
    - The Coordinate Plane
    - Reflecting Points in the Coordinate Plane

7. Equations and Inequalities
    - Writing Equations in One Variable
    - Solving Equations Using Addition or Subtraction
    - Solving Equations Using Multiplication or Division
    - Writing Equations in Two Variables
    - Writing and Graphing Inequalities
    - Solving Inequalities Using Addition or Subtraction
    - Solving Inequalities Using Multiplication or Division

8. Surface Area and Volume
    - Three-Dimensional Figures
    - Surface Area of Prisms
    - Surface Area of Pyramids
    - Volumes of Rectangular Prisms

9. Statistical Measures
    - Introduction to Statistics
    - Mean
    - Measures of Center
    - Measures of Variation
    - Mean Absolute Deviation

10. Data Displays
    - Stem-and-Leaf Plots
    - Histograms
    - Shapes of Distributions
    - Choosing Appropriate Measures
    - Box-and-Whisker Plots

11. Integers
    - Integers and Absolute Value
    - Adding Integers
    - Subtracting Integers
    - Multiplying Integers
    - Dividing Integers

12. Rational Numbers
    - Rational Numbers
    - Adding Rational Numbers
    - Subtracting Rational Numbers
    - Multiplying and Dividing Rational Numbers

13. Expressions and Equations
    - Algebraic Expressions
    - Adding and Subtracting Linear Expressions
    - Factoring Expressions
    - Solving Equations Using Addition and Subtraction
    - Solving Equations Using Multiplication and Division
    - Solving Two-Step Equations

14. Ratios and Proportions
    - Ratios and Rates
    - Proportions
    - Graphing Proportional Relationships
    - Writing Proportions
    - Solving Proportions
    - Slope
    - Direct Variation

15. Percents
    - Percents and Decimals
    - Comparing and Ordering Fractions, Decimals, and Percents
    - The Percent Proportion
    - The Percent Equation
    - Percents of Increase and Decrease
    - Discounts and Markups
    - Simple Interest