SAT Math's Topics

1. SAT Math Conventions
   a. Numbers' Sets
   b. Important Nomenclature
2. Arithmetic Essentials
   a. The Laws of Arithmetic
   b. Order of Operations
   c. Factoring and Prime Factorization
   d. HCF and LCM
3. The Heart of Algebra
   a. Simplifying Algebraic Expressions
   b. Exponents and Radicals
   c. Solving Linear Equations
4. Factoring
   a. Factoring Methods: G.C.F, Difference of two Squares, Trinomial, Grouping
   b. Rational Expressions
5. Functions
   a. Relations vs. Functions
   b. Types/Degree of Functions
   c. Linear Functions
   d. Composite Functions
6. Quadratics
   a. Characteristics of the Parabola
   b. Solving Quadratic Equations
   c. Completing Squares
7. Transformations of Functions
8. Solving a System of Equations
   a. Linear
   b. Non-Linear
9. Solving Inequalities
   a. First-degree Inequalities
   b. Second-degree Inequalities
   c. Absolute Value Inequalities
10. Counting Methods
    a. FCP (Fundamental Counting Principles)
    b. Permutations and Combinations
11. Word Problems I
    a. Forming linear equations and solve them
    b. Forming Inequalities
    c. Ratios and Percentages

12.   Word Problems II
   a. Age problems
   b. Work/Rates problems
   c. Speed problems
13.   Plane Geometry
   a. Lines and Angles
   b. Parallel Lines
   c. Triangles & Similarity
   d. Pythagorean Theorem
14.   Polygons
15.   Areas and Perimeters
16.   Circle Geometry
17.   Solid Geometry
18.   Coordinate Geometry
19.   Complex Numbers
20.   Basics of Statistics
21.   Basics of Trigonometry
22.   Probability Techniques
23.   Sequences and Series
   a. Sigma Notation
   b. Arithmetic (Linear) Sequences
   c. Geometric Sequences
24.   Tables' Analysis
25. Charts' Interpretation