Algebra Exit Exam Curriculum Syllabus

Session 1

Overview of the Algebra Exit Exam & Test Prep Chicago's Test-Taking Strategies

1. Algebraic Computations
   - Fundamentals review
   - Solving for one variable in linear equations
   - Expression equivalence

2. Linear Functions
   - Input and output values
   - Interpreting graphs of linear functions
   - Interpreting the slope of a line
   - Word problems: creating a linear equation
   - Converting from standard form to slope intercept form

Session 2

2. Linear Functions (cont.)
   - Solving systems of linear equations
   - Parallel, perpendicular, and intersecting lines
   - Word problems: creating systems of linear equations
   - Inequalities
   - Systems of inequalities
   - Graphing systems of equations
   - Graphing inequalities

3. Quadratic Functions
   - Solutions to quadratic equations
   - Factoring and distributing quadratic equations
   - Minimum and maximum values of x
   - Solutions to systems of quadratic equations
   - Comparing graphs of quadratic equations

Session 3

4. Function Characteristics and Statistics
   - Identifying a function: the vertical line test
   - Assigning variables
   - Composite functions
   - Graph transformations
   - Range and domain
   - Correlation and causation
   - Interquartile range and standard deviation

5. Exponential Functions
   - Interpreting exponential functions
   - Percentage change in exponential functions
   - Word problems: creating exponential functions

Session 4

Final Test

Test Prep Chicago Final Test-Taking Tips

Additional Notes:

Students will complete weekly online homework assignments. Final test and online homework results will be visible in each student's account in our online testing platform. Answer explanations for the final test and all homework assignments are included in the testing portal; it is highly recommended to review these explanations!