



ALGEBRA 1

PLACEMENT EXAM

STUDY GUIDE

This assessment will be used to ensure that you will be placed in the correct level of mathematics during this year at Piscataway High School. Please give this assessment your best effort.

Calculators are not permitted on the exam. Please use the following list of topics to review for the exam.

- Operations with real numbers
 - Determine decimal and fractional equivalents
 - Use the order of operations.
- Simplify variable expressions with exponents
- Simplify and evaluate expressions
- Evaluate algebraic expressions involving variables.
 - Add, subtract, and multiply polynomials
 - Translate verbal sentences
- Solve one-step and multi-step equations
- Solve and graph inequalities
- Model and solve word problems
- Use ratios, proportions, and percents
- Apply the concept of geometric similarity
- Use geometric congruency to solve sides and angles of shapes
- Determine the sum of the measures of the interior angles for polygons
- Write and solve equations from geometric diagrams
- Solve for the area of polygons.
- Graph equations by using tables, intercepts, and slope-intercept form.
- Write a linear equation from a graph, table, description, or two ordered pairs.

USEFUL ALGEBRA WEB SITES

- <http://www.coolmath.com/algebra/index.html>
- <http://www.purplemath.com/modules/index.htm>
- <http://www.yourteacher.com/algebra-1-tutoring.php>