



MATH TEACHER RECOMMENDATION FORM

FOR APPLICANTS TO GRADES 9 AND ABOVE

Student's Name _____ Applicant Grade _____

School _____ Address _____

Teacher _____ Phone Number _____

In an effort to understand her mathematics background, we are asking you to complete the information below.

Name of course as it appears on transcript _____

Text used _____

Calculator used _____

Please check off the units covered in the student's current math class.

Feel free to circle concepts not covered. If the student took Algebra in seventh grade and is currently enrolled in Geometry, please indicate the topics covered in seventh grade.

Foundations of Algebra

- variables and expressions
- operations with real numbers
- powers and exponents
- absolute value
- roots
- order of operations
- simplifying expressions
- midpoint and distance formulas

Equations

- solving one and two step equations
- solving equations with variables on both sides
- solving for a variable
- solving absolute value equations

Proportion and Percent

- rates, ratios and proportions
- applications of proportions
- percents and applications
- percent increase and decrease

Inequalities

- writing and graphing inequalities in one variable
- solving inequalities in one variable
- solving two step and multi-step inequalities
- solving inequalities with variables on both sides
- solving compound inequalities
- solving absolute value inequalities

Functions

- relations and functions
- vertical line test
- writing functions
- graphing functions
- scatter plots and trend lines

Linear Functions

- intercepts
- rate of change and slope
- slope intercept form
- point slope form
- graphing linear functions
- parallel and perpendicular lines
- transforming linear functions
- direct variation
- absolute value functions

Systems of Equations and Inequalities

- solving graphically
- solving by substitution
- solving by elimination
- systems with no solutions or infinitely many solutions
- solving linear inequalities
- solving systems of linear inequalities

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Exponents

- integer exponents
- powers of 10 and scientific notation
- properties of exponents
- rational exponents

Polynomials

- polynomials
- adding and subtracting polynomials
- multiplying polynomials
- factoring by GCF
- factoring binomials
- factoring trinomials
- factoring by grouping
- factoring completely

Quadratic Functions and Equations

- characteristics of quadratic functions
- graphing quadratic functions
- transforming quadratic functions
- solving a quadratic by graphing
- solving a quadratic by factoring
- solving a quadratic using square roots
- solving a quadratic by completing the square
- quadratic formula and discriminant

Data Analysis and Probability

- organizing and displaying data
- frequency and histograms
- experimental probability
- theoretical probability
- independent and dependent events
- combinations and permutations

Exponential and Radical Functions

- exponential functions
- exponential growth and decay
- square root functions
- radical expressions
- operations with radicals
- solving radical equations

Rational Functions and Equations

- rational functions
- simplifying rational expressions
- operations with rational expressions
- solving rational equations

This student's work level is considered the Lower Middle Upper Third of the Class.

Is there any other information about this student or her family which would be helpful for us to know?
You may attach an additional sheet.

Signature

Date

Name (please print)

Title

We thank you for taking the time to aid us in understanding the candidate better. All information will be considered confidential. Please mail the form no later than January 9th to the address below, or you may fax it to (212) 996-1784.

**Convent of the Sacred Heart
Admissions Office
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New York, NY 10128-0689**

If you have any questions or comments, please contact the Admissions Office at (212) 722-4745.