LONG TRAIL SCHOOL

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UPPER SCHOOL MATH RECOMMENDATION

To be completed by the child's current mathematics teacher.

Name _____is applying for admission to Long Trail School.

Your professional assessment will be helpful to the Admissions Committee. Any additional comments would help us gain a better understanding of the applicant. Please return your recommendation to the Admissions Office at Long Trail School (envelope provided). Thank you for your cooperation.

Please rank the applicant's knowledge of the various math topics 1–4 and elaborate, qualify or explain when it may be helpful.

1–mastered   2–covered and understood   3–covered but not understood   4–not covered

Topic	Rank	Topic	Rank
Graphing points on coordinate plane		Graphing an equation using a table of values	
Graphing a line using a slope and a y-intercept		Graphing inequalities	
Finding the slope between two points		Solving multi-step equations and inequalities	
Finding the equation of a line given 2 points in: slope intercept form and/or point-slope form		Finding x and y intercepts for a quadratic or other function	
Finding x and y intercepts for a line		Multiplying binomials	
Factoring quadratics		Quadratic formula	
Solving a quadratic using factoring and the zero-product property		Solving equations and problems involving proportions	
Laws of exponents (including negative exponents)		Operations with radicals/simplifying radicals	
Solving a system of linear equations algebraically		Exponential functions	
Exponential growth and decay		Compound interest	
Modeling with parabolas (e.g. projectile motion)		Operations with rational expressions (algebraic functions)	
Basics of geometry (angle measure, angle-pair relationships, perimeter, circumference, area, lines, segments, planes angle and segment bisectors)		Geometry proofs	
Right-angle trigonometry		Special right triangles	
Law of sines		Law of cosines	
Using a graphing calculator		Arithmetic and geometric sequences	
Matrices		solving a system of equations in 3 or more variables	
Linear programming		Logarithms	
Properties of polynomials		Complex numbers	
Function notation		Composite functions	
Shifting and stretching functions		The unit circle in degrees and radians	
Converting between degrees and radians		Trigonometric identities	
Conic sections/analytical geometry		Polar coordinates	
Parametric equations			

Please circle the phrases that best describe the applicant and add any comments that may be helpful in elaborating, qualifying, or explaining an answer:

Work habits	Well organized and prepared	Generally organized and prepared	Somewhat organized and prepared	Rarely organized and prepared
Homework	**Always on time**	**Usually on time**	**Occasionally on time**	**Seldom on time**
Achievement	Over-achieving	Achieving consistent with ability	Irregularly achieving	Achieving far below ability
Initiative	Highly motivated	Often motivated	Somewhat motivated	Rarely motivated
Class participation	Highly constructive and involved	Often constructive and involved	Somewhat constructive and involved	Rarely constructive and involved
Classroom behavior	On task and attentive	Generally on task and attentive	Somewhat on task and attentive	Inattentive; distracting and/or distractible
Sensitivity	Highly considerate and sympathetic	Usually considerate and sympathetic	Somewhat considerate and sympathetic	Rarely aware of others
Integrity and dependability	Highly trustworthy and responsible	Generally trustworthy and responsible	Somewhat trustworthy and responsible	Rarely trustworthy and responsible
Leadership	Assumes leadership easily	Capable of leadership but isn't a leader	Tends to follow	Non- or negative leader
Citizenship	Highly interactive in school community	Generally interactive in school community	Occasionally interactive in school community	Non- or negatively participatory
Peer interaction	Always maintains positive and close friendships	Often maintains positive and close friendships	Finds some difficulty maintaining close friendships	Antisocial and/or isolated

Name of this year's math course and textbook: _____

What math course would you recommend for next year? _____

Additional comments _____

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Teacher's name_____ Date_____