

Marking Period	Reading/Writing Assignment	Chapter/Section	
1	Unit Portfolio: Error Analysis	Units 1-2	
2	LOST project.	Unit 3	
3	Unit Portfolio: Notes To Future Self	Units 4-6	
4 End of Year Reflection		Units 1-8	

Scoring Guide for Written Work

1 - Emerging	2 - Intermediate	3 - Proficient	4 - Exemplary
Conceptual Understanding Demonstrates almost no understanding of learning targets, and includes significant errors or deficiencies in thought.	Conceptual Understanding Demonstrates some understanding of learning targets, potentially including several errors or deficiencies in thought.	Conceptual Understanding Demonstrates nearly all understanding of learning targets, potentially including a minor error or deficiency in thought.	Conceptual Understanding Demonstrates complete understanding of learning targets.
Mathematical Skills Gives incorrect answers and explanations and does not follow or implement correct processes or methods for the solution.	Mathematical Skills Gives partially correct answers and explanations, does not use ideal processes or methods, and work is not clear.	Mathematical Skills Gives correct or nearly correct answers and explanations through solving equations, drawing graphs, identifying figures, etc., and may also lack some clarity.	Mathematical Skills Gives clear and correct answers and explanations through solving equations, drawing graphs, identifying figures, etc
Work Habits Does not complete the majority of tasks and/or work is unintelligible.	Work Habits Completes almost all tasks but work is not organized or easily understood.	Work Habits Completes tasks thoroughly, and work is mostly organized and legible.	Work Habits Completes tasks thoroughly, and work is organized, legible, and easily understood.



Content Topics and Pacing

Торіс	Duration	Learning Target(s)
Unit 1 Functions and their Graphs.	~3 Weeks	 Use the Distance Formula to find the distance between two points. Use the Midpoint Formula to find the midpoint of a line segment Identify - and -intercepts of graphs of equations. Find the domains of functions. Find the zeros of functions. Determine intervals on which functions are increasing or decreasing. Identify and graph linear and squaring functions. Identify and graph cubic, square root, and reciprocal functions. Use vertical and horizontal shifts to sketch graphs of functions.
Unit 2 Polynomial and Rational Functions.	~4 weeks	 Write quadratic functions in standard form and use the results to sketch their graphs. Use the Leading Coefficient Test to determine the end behaviors of graphs of polynomial functions. Find real zeros of polynomial functions and use them as sketching aids. Use long division to divide polynomials by other polynomials. Use the Remainder Theorem and the Factor Theorem. Use the imaginary unit to write complex numbers. Add, subtract, and multiply complex numbers.



		 Use the Fundamental Theorem of Algebra to determine numbers of zeros of polynomial functions. Find zeros of polynomials by factoring. Find domains of rational functions. Find vertical and horizontal asymptotes of graphs of rational functions. Sketch graphs of rational functions.
Unit 3 Exponential and Logarithmic functions.	~3 weeks	 Recognize and evaluate exponential functions with base . Graph exponential functions and use the One-to-One Property. Recognize and evaluate logarithmic functions with base . Graph logarithmic functions. Use the change-of-base formula to rewrite and evaluate logarithmic expressions. Use properties of logarithms to evaluate or rewrite logarithmic expressions. Use properties of logarithms to expand or condense logarithmic expressions. Solve simple exponential and logarithmic equations. Solve more complicated exponential equations.
Unit 4 Trigonometry.	~5 weeks	 Describe angles. Use radian measure. Use degree measure. Identify a unit circle and describe its relationship to real



	 numbers. Evaluate trigonometric functions using the unit circle. Evaluate trigonometric functions of acute angles. Use fundamental trigonometric identities. Evaluate trigonometric functions of any angle. Find reference angles. Sketch the graphs of basic sine and cosine functions. Use amplitude and period to help sketch the graphs of sine and cosine functions. Sketch translations of the graphs of sine and cosine functions. Sketch the graphs of tangent functions. Sketch the graphs of cotangent functions. Sketch the graphs of secant and cosecant functions.
Unit 5 Analytic Trigonometry.	 Recognize and write the fundamental trigonometric identities. Use the fundamental trigonometric identities to evaluate trigonometric functions, simplify trigonometric expressions, and rewrite trigonometric expressions. Verify trigonometric identities. Use standard algebraic techniques to solve trigonometric equations. Solve trigonometric equations of quadratic type.
	 Use sum and difference formulas to evaluate trigonometric functions, verify identities, and solve trigonometric equations.



		• Use trigonometric formulas to rewrite real-life models.
Unit 6 Systems of Equations/Inequalities.	~ 4 weeks	 Use the method of substitution to solve systems of linear equations in two variables Use a graphical method to solve systems of equations in two variables. Use the method of elimination to solve systems of linear equations in two variables. Use systems of linear equations in three or more variables to model and solve real-life problems. Recognize partial fraction decompositions of rational expressions. Find partial fraction decompositions of rational expressions.
Unit 7 Sequences, Series, and Probability.	~ 4 weeks	 Write explicit and recursive formulas given a sequence. Find missing terms of an arithmetic sequence. Write explicit rules for an arithmetic sequence. Find missing terms of a geometric sequence. Write explicit rules for a geometric sequence. Describe the behavior of a geometric sequence as n approaches infinity. Write proofs by induction.