

ALGEBRA 2 PACING GUIDE 2015-2016

FIRST QUARTER		
UNIT	PACING	TOPICS
Equations and Inequalities	2 Weeks Chapter 1	<ul style="list-style-type: none"> Reason quantitatively and use units to solve problems. Interpret the structure of expressions. Write expressions in equivalent forms to solve problems.
Linear Relations and Functions	2 Weeks Chapter 2	<ul style="list-style-type: none"> Understand the concept of a function and use function notation. Interpret function notation. Analyze functions using different representations. Create Scatter Plots for linear, quadratic, and exponential functions.
Systems of Equations and Inequalities	2 Weeks Chapter 3	<ul style="list-style-type: none"> Solve Equations that describe numbers or relationships. Understand solving equations as a process of reasoning and explain the reasoning. Solve systems of equations. Represent and Solve Equations Graphically Create Equations that describe numbers or relationships.
Quadratic Functions and Relations	3 Weeks Chapter 5 Part 1 (5-1 through 5-2)	<ul style="list-style-type: none"> Build a function that models a relationship between two quantities. Understand the concept of a function and use function notation. Interpret functions that arise in applications in terms of the context. Construct and compare quadratic models and solve problems. Translate between the geometric description and the equation for a conic section.
SECOND QUARTER		
UNIT	PACING	TOPICS
Quadratic Functions and Relations	4 Weeks Chapter 5 Part 2 (5-3 through 5-7)	<ul style="list-style-type: none"> Build a function that models a relationship between two quantities. Understand the concept of a function and use function notation. Interpret functions that arise in applications in terms of the context. Construct and compare quadratic models and solve problems. Translate between the geometric description and the equation for a conic section.
Polynomials and Polynomial Functions	2 Weeks Chapter 6	<ul style="list-style-type: none"> Understand the relationship between zeros and factors of polynomials. Use polynomial identities to solve problems. Rewrite rational expressions.
TNREADY REVIEW PT 1	3 Weeks Review for Part 1 of Test or Chapter 7 (TBD by PLC)	<ul style="list-style-type: none"> **TNREADY REVIEW PT 1**

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THIRD QUARTER		
UNIT	PACING	TOPICS
Inverses, Radical Functions, and Relations	3 weeks Chapter 7	<ul style="list-style-type: none"> Build a function that models a relationship between two quantities. Build new functions from existing functions. Extend the properties of exponents to rational exponents. Understand solving equations as a process of reasoning and explain the reasoning.
Exponential and Logarithmic Functions and Relations	3 Weeks Chapter 8	<ul style="list-style-type: none"> Summarize, represent, and interpret data on a single count or measurement variable. Summarize, represent, and interpret data on two categorical and quantitative variables
Rational Functions and Relations	2 Weeks Chapter 9	<ul style="list-style-type: none"> Understand solving equations as a process of reasoning and explain the reasoning. Represent and solve equations and inequalities graphically. Rewrite Rational Expressions
TNREADY REVIEW PT 1	1 Week Review for Part 1 of TN Ready	<ul style="list-style-type: none"> **TNREADY REVIEW PT 1**
FOURTH QUARTER		
UNIT	PACING	TOPICS
Sequences and Series	2 Weeks Chapter 11	<ul style="list-style-type: none"> Understand the concept of a function and use function notation. Build a function that models a relationship between two quantities. Construct and Compare models and solve problems. Write expressions in equivalent forms to solve problems.
Probability and Statistics	2 Weeks Chapter 12	<ul style="list-style-type: none"> Make inferences and justify conclusions from sample surveys, experiments, and observational studies. Understand and evaluate random processes underlying statistical experiments. Summarize, represent, and interpret data on two categorical and quantitative variables. Summarize, represent, and interpret data on a single count or measurement variable. Understand independence and conditional probability and use them to interpret data. Use the rules of probability to compute probabilities of compound events in a uniform probability model.
Trigonometric Functions	2 Weeks Chapter 13	<ul style="list-style-type: none"> Extend the domain of trigonometric functions using the unit circle Prove and apply trigonometric identities. Model periodic phenomena with trigonometric functions.
TNREADY REVIEW PT 2	2 Weeks Review for Part 2 of TNReady	**TNREADY REVIEW PT 2**