

Algebra II PACING GUIDE
Lunenburg County Public Schools
2018-2019

First Nine Weeks

SOL	TOPIC	DAYS
All.11a	Identify and describe properties of a normal distribution.	2
All.11b	Interpret and compare z-scores for normally distributed data.	3
All.11c	Apply those properties to determine probabilities associated with areas under the standard normal curve.	4
	Review & assessment on All.11	2
All.12	Compute and distinguish between permutations and combinations.	4
	Assessment on All.12	1
All.11 and 12	Unit Test	1
A.10	Represent and solve real-world problems, including practical problems involving inverse variation, joint variation, and a combination of direct and inverse variations.	10
	Assessment on All.10	1
All.5	Investigate and apply the properties of arithmetic and geometric sequences and series to solve real-world problems, including writing the first n terms, and finding the n^{th} term. Notation will include Σ and a_n .	8

All.5	Evaluating summation formulas. Notation will include Σ and a_n .	2
	Review & Assessment on All.5	2
All.5 and 10	Unit Test	1
	Review Troublesome Topics from First Nine Weeks.	4

Second Nine Weeks

SOL	TOPIC	DAYS
All.2	Perform operations on complex numbers and express the results in simplest form using patterns of the powers of i .	4
All.1b	Add, subtract, multiply, divide, and simplify radical expressions containing rational numbers and variables, and expressions containing rational exponents.	10
	Review & Assessment on All.1b and 2	2
All.4	Solve systems of equations of linear-quadratic and quadratic-quadratic equations, algebraically and graphically.	4
	Assessment on All.4	1
All.1b, 2, and 4	Review and Unit Test	2
All.7d and 8	Investigate and analyze zeros and factors of a function algebraically and graphically.	2
All.7e and 8	Investigate and analyze intercepts and factors of a function algebraically and graphically.	1
All.7a	Investigate and analyze domain, range, and continuity of a function algebraically and graphically.	4
A.II 7f	Determine values of a function for elements in its domain.	2
A.II 7h	Investigate and analyze end behavior of a function algebraically and graphically.	4
A.II 7b and c	Investigate and analyze intervals in which a function is increasing and decreasing algebraically and graphically.	4

	Review & Assessment on All.7a,b,c,e,f,h and 8	2
All.7a,b,c,d,e,f, h and 8	Unit Test	1
	Review Troublesome Topics from Second Nine Weeks	2

Third Nine Weeks

SOL	TOPIC	DAYS
A.II 7i	Investigate and analyze vertical and horizontal asymptotes of a function algebraically and graphically.	4
A.II 7j	Investigate and analyze inverse of a function algebraically and graphically.	4
A.II 7k	Investigate and analyze composition of functions algebraically and graphically.	4
	Review and Assessment on A.II 7i, j, and k	2
A.II 6a	Recognize the general shape of function families: absolute value, square root, cube root, rational, polynomial, exponential, and logarithmic.	2
A.II 6b	Use knowledge of transformations to convert between equations and corresponding graphs of functions.	4
A.II 7g	Investigate and analyze connections among multiple representations of functions using verbal descriptions, tables, equations, and graphs.	4
	Review and Assessment on A.II 6a,b, and 7g	2
A.II 6a,b, 7g,7i, and 7k	Unit Test	1
A.II 1c	Factor polynomials completely in one or two variables.	10
	Assessment on A.II 1c	1
	Review Troublesome Topics from Third Nine Weeks.	2

A.II 1a	Add, subtract, multiply, divide, and simplify rational algebraic expressions.	5
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Fourth Nine Weeks

SOL	TOPIC	DAYS
A.II 1a	Add, subtract, multiply, divide, and simplify rational algebraic expressions.	4
	Assessment on SOL A.II 1a.	1
A.II 3a	Solve absolute value equations and inequalities.	4
A.II 3d	Solve equations containing radical expressions.	3
A.II 3c	Solve equations containing rational algebraic expressions.	5
A.II 3b	Solve quadratic equations over the set of complex numbers.	5
A.II 9	Collect and analyze data, determine the equation of the curve of best fit to make predictions, and solve practical problems using mathematical models of quadratic and exponential functions.	5
	Review & Assessment on SOL A.II 3 a,b,c,d, and 9.	2
A.II 1a, 3a,b,c,d, and 9	Unit Test	1
ALL	Review for SOL Test and Exam including Expedites.	15