

Brunswick High School Pacing Guide in Algebra 2 for Academic Year 2021-2022

	Unit	Learning Experiences	2016 SOL	Pacing
		Subject Orientation and Class Rules Pre-assessment/Filling the gaps		1.5 weeks
F i r s t N i n e W e e k s	Function Families and Transformation	- Shapes of Parent Functions - Equations of Parent Functions - Transformation of Parent Function Graphs - Characteristics of Parent Functions (Connection Between the Graph, Equation, and Verbal Descriptions of Parent Functions)	All.6ab All.7abcdegh	2.0 weeks
	Absolute Value Functions	- Transform Absolute Value Functions - Characteristics of Absolute Value Functions (Connections Between the Graph, Equation, Table, and Verbal Descriptions of Parent Functions) - Solve Absolute Value Equations - Solve Absolute Value Inequalities	All.3a All.6ab All.7abdefgh	2 weeks
	Radical Expressions, Rational Exponents & Complex Numbers	- Simplify Radical Expressions - Operations on Radical Expressions - Extension: Divide Radical Expressions (Rationalize Denominators) - Converting with Rational Exponents - Simplifying and Operations on Complex Numbers	All.1b All.2	1.5 weeks
	Factoring	Factor Polynomials in One or Two Variables	All.1c	2.0 weeks
S e c o n d				
	Quadratic Functions	- Transform Quadratic Functions - Characteristics of Quadratic Functions (Connections Between the Graph, Equation, Table, and Verbal Descriptions of Quadratic Functions) - Solve Quadratic Equations	All.3b All.6ab All.7abcdefg	1 week

N i n e W e e k s	Systems of Equations	- Relationships Among Solutions, Zeros, x-intercepts, and factors of a Quadratic Expression - Solve Systems of Equations Graphically/Algebraically	All.4	
	Higher Order Polynomials	- Characteristics of Polynomial Functions - Relationships Among Solutions, Zeros, x-intercepts, and Factors of a Polynomial Expression	All.7abcdefhijk	0.5 week
	Radical Functions	- Transform Radical Functions - Characteristics of Radical Functions (Connections Between the Graph, Equation, Table, and Verbal Descriptions of Radical Functions - Solve Radical Equations	All.3d All.6ab All.7abdefgh	0.5 week
	Rational Expressions & Equations	- Characteristics of Rational Functions (Connections Between the Graph, Equation, Table, and Verbal Descriptions of Rational Functions - Operations on Rational Expressions - Solve Rational Equations	All.1a All.3c All.7adefghi	1 week
	Composition of Functions, Inverses & Variation	- Determine Compositions of Functions - Determine the Inverse of a function - Solve Variation Problems	All.7jk All.10	1 week
	Exponents & Logarithmic Functions	- Transform Exponential and Logarithmic Functions - Characteristics of Exponents and Logarithmic Functions (Connections Between the Graph, Equation, Table, and Verbal Description of Exponential and Logarithmic Functions - Extension: Conversion between Exponential and Log Form - Extension: Solve Basic Exponential and Log Equations	All.6ab All.7abdefghi	1 week
	Sequences & Series	Solve Problems with Arithmetic and Geometric Sequences and Series	All.5	1 week
	Statistics	- Solve Problems with a Curve of Best Fit - Solve Problems Involving Normal Distributions	All.9 All.11abc All.12	1 week

		• Solve Problems using Permutations and Combinations		
		• SOL Review		2 weeks