## **Geary Lesson Plans**

Teacher Name	Subject		Grade Level
Danny Blackshear	Algebra II		10-11
Title of Unit/Lesson			
Unit 1: Systems and Functions			
Duration of Lesson			Date(s)
35 Days – October 2 9/21/20 – 9		9/21/20 – 9/25/20	
Learning Goals/Objectives	Language Objectives		Standards
<ul> <li>I can specify domain and range using:</li> <li>✓ Algebraic notation</li> <li>✓ Set notation</li> <li>✓ Interval notation</li> <li>I can evaluate a function at a given point in its domain.</li> <li>I can perform the following operations using function notation:</li> <li>✓ Add</li> <li>✓ Subtract</li> <li>✓ Multiply</li> <li>I can recognize restrictions on the domain.</li> <li>I can combine functions by composition.</li> </ul>	<ul> <li>Teacher <ul> <li>I will use the proper vocabulary and language of mathematics.</li> </ul> </li> <li>Student <ul> <li>My students will be reminded to use proper vocabulary at all times.</li> </ul> </li> </ul>	<ul> <li>A2</li> <li>initiato</li> <li>of</li> <li>an</li> <li>giv</li> <li>A2</li> <li>mi</li> <li>mi</li> <li>an</li> <li>fu</li> <li>an</li> <li>f</li> <li>an</li> <li>f</li> <li>an</li> <li>an</li></ul>	2.F.1.1 – Use algebraic, terval, and set notations specify domain and range functions of various types ad evaluate a function at a ven point in its domain. 2.F.2.1 – Add, subtract, ultiply, and divide nctions using function otation and recognize omain restrictions. 2.F.2.2 – Combine nctions by composition ad recognize that $g(x) =$ $^{-1}(x)m$ is the inverse nction of $f(x)$ , if and only f(g(x)) = g(f(x)) = x 2.A.1.8 – Represent real- orld and mathematical oblems using systems of near equations with a aximum of three variables ad solve using various ethods that may include bstitution, elimination, ad graphing (may include aphing calculators or her appropriate chnology). 2.F.1.2 – Recognize the aphs of exponential, dical (square and cube ot only), quadratic, and garithmic functions.

			Predict the effects of transformations algebraically and graphically, using various methods and		
			graphing calculators or		
			technology		
Learning Targets (list what students should be able to do or understand at each level)					
2.0 F	oundational Skills	3.0 Learning Goal/Objective	4.0 More Complex Knowledge		
Can the stuc	dent:	Can the student:	Can the student:		
<ul> <li>I can expre</li> <li>I can and r help.</li> <li>Assessment</li> <li>Constant model</li> <li>Instructiona</li> </ul>	simplify linear polynomial essions. simplify absolute value radical expressions with & Monitoring (How will y nitoring. Can the student ex	<ul> <li>I can simplify and evaluate linear, absolute value and radical expressions.</li> <li>ou know you've attained the desired plain their reasoning? Can the student re cies/Transitions</li> </ul>	<ul> <li>I can simplify and evaluate any algebraic expression to include:         <ul> <li>Linear expressions</li> <li>Radical expressions</li> <li>Absolute Value expressions</li> <li>Non-standard expressions</li> <li>I can interpret the solutions in context.</li> </ul> </li> <li>effect?)</li> </ul>		
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Anticipated Date		Assignments	Resources, Materials and Technology Needed		
9.21.20	Review 20 min:		N/A		
	<ul><li>Domain and range</li><li>Evaluating a function</li></ul>	using various styles of notation on at a given point in the domain			
	New material:				
9.22.20	Review 10-15 minutes:		N/A		
	Domain and range				
	<ul> <li>Domain and range</li> <li>Evaluating a function at a given point in the domain</li> </ul>				
	Determining restri	ctions on the domain			
	New material:				
	Composition of fu	nctions			