

Geary Lesson Plans

Teacher Name	Subject	Grade Level
Danny Blackshear	Algebra II	10-11
Title of Unit/Lesson		
Unit 2: Quadratic Functions		
Duration of Lesson		Date(s)
15 Days – November 6		10/19/20 – 10/23/20
Learning Goals/Objectives	Language Objectives	Standards
<ul style="list-style-type: none"> • I can recognize that a quadratic function has different representations (standard form, vertex form, factored form). • I can graph a quadratic function, identify the x and y intercepts, identify the maximum or minimum value, the axis of symmetry, and the vertex using various methods and tools that may include a graphing calculator or appropriate technology. • Recognize the graphs of exponential, radical (square and cube root only), quadratic and logarithmic functions. • I can predict the effects of transformations ($f(x + c)$, $f(x) + c$, $f(cx)$, and $cf(x)$ where c is a positive or negative real-valued constant) algebraically and graphically, using various methods and tools that may include graphing calculators or other appropriate technology. 	<p>Teacher</p> <ul style="list-style-type: none"> • I will use the proper vocabulary and language of mathematics. <p>Student</p> <ul style="list-style-type: none"> • My students will be reminded to use proper vocabulary at all times. 	<ul style="list-style-type: none"> • A2.A.2.3 • A2.F.1.3 • A2.F.1.2
Learning Targets (list what students should be able to do or understand at each level)		

2.0 Foundational Skills	3.0 Learning Goal/Objective	4.0 More Complex Knowledge
<p>Can the student:</p> <ul style="list-style-type: none"> I can simplify linear polynomial expressions. I can simplify absolute value and radical expressions with help. 	<p>Can the student:</p> <ul style="list-style-type: none"> I can simplify and evaluate linear, absolute value and radical expressions. 	<p>Can the student:</p> <ul style="list-style-type: none"> I can simplify and evaluate any algebraic expression to include: <ul style="list-style-type: none"> ✓ Linear expressions ✓ Radical expressions ✓ Absolute Value expressions ✓ Non-standard expressions I can interpret the solutions in context.
Assessment & Monitoring (How will you know you've attained the desired effect?)		
Constant monitoring. Can the student explain their reasoning? Can the student reproduce independent work?		
Instructional Strategies/Lesson Activities/Transitions		
Anticipated Date	Assignments	Resources, Materials and Technology Needed
10.19.20	Fall Break	N/A
10.20.20	<p>Quadratic functions:</p> <ul style="list-style-type: none"> Standard, vertex and factored forms <ul style="list-style-type: none"> ✓ What information do we know from the function rule? ✓ Can I recognize each form? ✓ Can I graph and identify critical information to include: <ul style="list-style-type: none"> ▪ Intercepts (x and y), maximum or minimum, the axis of symmetry, and the vertex. 	N/A
10.21.20	Review Tuesday's material followed by an exit ticket.	N/A
10.22.20	<p>Transformations:</p> <ul style="list-style-type: none"> $f(x + c)$ $f(x) + c$ $f(cx)$ $cf(x)$ 	N/A
10.23.20	Review Thursday's material followed by an exit ticket.	N/A
Adaptations and Accommodations (ELL, Special Education, Gifted, Those without Support)		

