

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		10/12/20 – 10/16/20
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)		

<p>2.0 Foundational Skills</p> <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>3.0 Learning Goal/Objective</p> <p>Can the student:</p> <ul style="list-style-type: none"> I can simplify and evaluate linear, absolute value and radical expressions. 	<p>4.0 More Complex Knowledge</p> <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.
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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
10.12.20	Substitute: <ul style="list-style-type: none"> Complete unit 1 exam. 	N/A
10.13.20	Return and remediate unit 1 exam	N/A
10.14.20	Introduce unit 2: Quadratic Functions <ul style="list-style-type: none"> Three form comparison 	N/A
10.15.20	Fall Break	N/A
10.16.20	Fall Break	N/A

Adaptations and Accommodations (ELL, Special Education, Gifted, Those without Support)

Hand-picked elbow partners, calculators, additional time on assignments, reduced number of items.

Vocabulary:

Quadratic	Minimum	Domain	Parabola
Axis of symmetry	Focus	Vertex	Maximum
Range	Standard form	Vertex form	Directrix
y-intercept	x-intercept	Set notation	Interval notation
Latus rectum			
