Name: Woods	Grading Quarter: 2	Week Beginning: 10/21/24
School Year: 24-25	Subject: Algebra 2	

	Notes:	Objective / Lesson Overview	Academic Standards
Monday	Notes:	Objective: Students will be able to solve quadratic equations by graphing. Lesson Overview: Review 3-1 and 3-2 from last week. Finish with an open-note quiz.	Academic Standards: A.CED.2 Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.
Tuesday	Notes:	Objective: Students will be able to perform operations on complex numbers. Lesson Overview: Discuss how there is no real answer to the square root of a negative number. Define i and show how addition, subtraction, multiplication, and division with i work.	Academic Standards: N.CN.1 Perform arithmetic operations with complex numbers. Know there is a complex number i such that $i^2 = -1$, and every complex number has the form $a + bi$ with a and b real. N.CN.2 Use the relation $i^2 = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.
Wednesday	Notes:	Objective: Students will be able to perform operations on complex numbers. Lesson Overview: *This is a continuation of previous day's lesson* Discuss when solution will be imaginary. Extend to complex numbers that have both a real and imaginary component.	Academic Standards: N.CN.1 Perform arithmetic operations with complex numbers. Know there is a complex number i such that $i^2 = -1$, and every complex number has the form $a + bi$ with a and b real. N.CN.2 Use the relation $i^2 = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.
Thursday	Notes:	Objective: Students will be able to solve quadratic equations by factoring. Lesson Overview: Learn several different factoring techniques for quadratics, including difference of squares, perfect square trinomials, and factoring by grouping. When factoring is not possible, use the quadratic formula.	Academic Standards: N.CN.7 Use complex numbers in polynomial identities and equations. Solve quadratic equations with real coefficients that have complex solutions.

Friday	Notes:	Objective: Students will be able to solve quadratic equations by factoring. Lesson Overview: *This is a continuation of previous day's lesson* Practice problems with a partner.	Academic Standards: N.CN.7 Use complex numbers in polynomial identities and equations. Solve quadratic equations with real coefficients that have complex solutions.