

· Advanced Algebra Quarter 2 Breakdown · North Community High School · 2025-2026 ·

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TIMELINE	STANDARDS TAUGHT/LEARNED	ASSESSMENTS/MASTERY
WEEK ONE** (Nov 5 - Nov 7)	Unit 3 - Number Systems and Operations - Simplify expressions by combining like terms (add and subtract polynomials). - Multiply polynomials using an area model. - Find perimeter and area with polynomials.	
WEEK TWO (Nov 10 - Nov 14)	Unit 3 - Number Systems and Operations - Solve quadratic equations with real solutions (factoring). - Solve quadratic equations with real solutions (quadratic formula). - Solve quadratic equations with non-real solutions (quadratic formula).	Quiz (Friday, November 14th)
WEEK THREE (Nov 17 - Nov 21)	Unit 3 - Number Systems and Operations - Simplify expressions with imaginary numbers by combining like terms (add and subtract complex numbers). - Discover the powers of i pattern. - Multiply imaginary numbers. - Multiply complex numbers using an area model.	Quiz (Friday, November 21st)
WEEK FOUR*** (Nov 24 - Nov 25)	Polynomial Functions Project - Planting a Polynomial Garden	
WEEK FIVE (Dec 1 - Dec 5)	Unit 4 - Polynomial Functions - Transformations of quadratic functions given vertex form (equation, table, graph) - Graphing a quadratic function from standard form (convert to factored form first, find axis of symmetry to plot vertex) - Writing a quadratic equation from a graph (given vertex and given roots)	Quiz (Friday, December 5th)
WEEK SIX (Dec 8 - Dec 12)	Unit 4 - Polynomial Functions - Transformations of cubic functions given inflection point form (equation, table, graph) - Writing a cubic equation from a graph (given inflection point and given roots/multiplicities) - Find the a-value of the graph of a cubic function	Quiz (Friday, December 12th)
MIDQUARTER		
WEEK SEVEN (Dec 15 - Dec 19)	Unit 4 - Polynomial Functions - Roots of polynomials (given factored equation find roots, use roots to write equation in factored form) - End behavior of polynomial functions	
WEEK EIGHT (Jan 5 - Jan 9)	Unit 4 - Polynomial Functions Divide polynomials using an area model (no remainders).	

	• Divide polynomials using an area model (with remainders). • Solve polynomial functions with real roots (factor the quotient after dividing). • Solve polynomial functions with complex roots (quadratic formula after dividing).	
WEEK NINE (JAN 12 - JAN 16)	Unit 4 - Polynomial Functions • Review & assess Quarter 2 Review (3 Days)	Quiz (Tuesday, January 13th)
WEEK TEN** (JAN 20 - JAN 22)	Quarter 2 Test (2 Days) Extra Credit Opportunities	Quarter 2 Test (Tuesday, January 20th & Wednesday, January 21st)
FINAL		

Credit for this course is earned through mastery of the above standards and mastery of the standards is shown through the above assessment options. Showing mastery through assessments of standards earns you credit for the course.

Resources for the above standards can be found on our Google Classroom page as the quarter progresses. Please let me know if you would like to meet before or after school for additional support.