

Clarity for Learning	
Standard KY.HS.N.7 (Algebra 2) Perform operations with complex numbers.	
Concepts (Nouns) real imaginary complex conjugate	Skills (Verbs) add subtract multiply solve
Learning Progressions <i>Prerequisites:</i> <ul style="list-style-type: none"> Find square roots of negative numbers using imaginary numbers Represent numbers, not on the real number line, with complex numbers Add subtract and multiply imaginary and complex numbers <i>Grade level skills:</i> <ul style="list-style-type: none"> 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. Use the relation $i^2 = -1$ and the commutative, associative and distributive properties to add, subtract and multiply complex numbers. <i>Clarifications:</i> Students understand that the complex number system provides solutions to the equation $x^2 + 1 = 0$ and higher-degree equations.	
Learning Intentions (I am learning to...)	Success Criteria (I know I'm successful when...)
Add, subtract, and multiply binomials. Solve quadratic equations with real solutions.	<ul style="list-style-type: none"> I can add subtract and multiply complex numbers using the properties of operations and the relation $i^2 = -1$. I can use complex numbers to represent numbers, not on the real number line.