

## Algebra 2 Objectives

Objective	OK C <sup>3</sup> Standards
Polynomial, Rational, and Radical Relationships	
Perform arithmetic operations with complex numbers.	N.CN.1, N.CN.2
Use complex numbers in polynomial identities and equations.	N.CN.7, N.CN.8(+), N.CN.9(+)
Interpret the structure of expressions.	A.SSE.1, A.SSE.2
Write expressions in equivalent forms to solve problems.	A.SSE.4
Perform arithmetic operations on polynomials.	A.APR.1
Understand the relationship between zeros and factors of polynomials.	A.APR.2, A.APR.3
Use polynomial identities to solve problems.	A.APR.4, A.APR.5
Rewrite rational expressions.	A.APR.6, A.APR.7(+)
Understand solving equations as a process of reasoning and explain the reasoning.	A.REI.2
Represent and solve equations and inequalities graphically.	A.REI.11
Analyze functions using different representations.	F.IF.7
Trigonometric Functions	
Extend the domain of trigonometric functions using the unit circle.	F.TF.1, F.TF.2
Model periodic phenomena with trigonometric functions.	F.TF.5
Prove and apply trigonometric identities.	F.TF.8
Modeling with Functions	
Create equations that describe numbers or relationships.	A.CED.1, A.CED.2, A.CED.3, A.CED.4
Interpret functions that arise in applications in terms of a context.	F.IF.4, F.IF.5, F.IF.6
Analyze functions using different representations.	F.IF.7; F.IF.7b,e; F.IF.8; F.IF.9

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Build a function that models a relationship between two quantities.	F.BF.1
Build new functions from existing functions	F.BF.3, F.BF.4
Construct and compare linear, quadratic and exponential models and solve problems.	F.LE.4
<b>Inferences and Conclusions from Data</b>	
Summarize, represent, and interpret data on a single count or measurement variable.	S.ID.4
Understand and evaluate random processes underlying statistical experiments.	S.IC.1, S.IC.2
Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	S.IC.3, S.IC.4, S.IC.5, S.IC.6
<b>Inferences and Conclusions from Data Continued</b>	
Use probability to evaluate outcomes of decisions.	S.MD.6(+), S.MD.7(+)
<b>Standards for Mathematical Practice</b>	
Make sense of problems and persevere in solving them.	
Reason abstractly and quantitatively.	
Construct viable arguments and critique the reasoning of others.	
Model with mathematics.	
Use appropriate tools strategically.	
Attend to precision.	
Look for and make use of structure.	
Look for and express regularity in repeated reasoning.	