Algebra II

Major Content:

N.RN.A – Extend the properties of exponents to rational exponents.
A.SEE.A – Interpret the structure of expressions.
A.SSE.B – Write expressions in equivalent forms to solve problems.
A.APR.A – Understand the relationship between zeros and factors of polynomials.
A.REI.A – Understand solving equations as a process of reasoning and explain the reasoning.
A.REI.D – Represent and solve equations and inequalities graphically.
F.IF.B – Interpret functions that arise in applications in terms of the context.
F.BF.A – Build a function that models a relationship between two quantities.
S.IC.B – Make inferences and justify conclusions from sample surveys, experiments, and observational studies.

Supporting Content:

N.Q.A – Reason quantitatively and use units to solve problems.
A.APR.C – Rewrite rational expressions.
A.CED.A – Create equations that describe numbers or relationships.
A.REI.B – Solve equations and inequalities in one variable.
F.IF.A – Understand the concept of a function and use function notation.
F.IF.C – Analyze functions using different representations.
F.LE.A – Construct and compare linear, quadratic, and exponential models and solve problems.
S.ID.C – Summarize, represent, and interpret data on two categorical and quantitative variables.
S.IC.A – Understand and evaluate random processes underlying statistical experiments.

Additional Content:

N.CN.A – Perform arithmetic operations with complex numbers.
N.CN.C – Use complex numbers in polynomial identities and equations.
A.APR.B – Use polynomial identities to solve problems.
A.REI.C – Solve systems of equations.
F.BF.B – Build new functions from existing functions.
F.LE.B – Interpret expressions for functions in terms of the situation they model.
F.TF.A – Extend the domain of trigonometric functions using the unit circle.
F.TF.B – Model periodic phenomena with trigonometric functions.
F.TF.C – Prove and apply trigonometric identities.
G.GPE.A – Translate between the geometric description and the equation for a conic section.
S.ID.B – Summarize, represent, and interpret data on a single count or measurement variable.
S.CP.A – Understand independence and conditional probability and use them to interpret data.
S.CP.B – Use the rules of probability to compute probabilities of compound events in a uniform probability model.