



# Connections for Success

Course content emphasis indicated by: ● Major Cluster: ▲ Supporting Cluster

<b>ALGEBRA 2</b>	
NUMBER AND QUANTITY - N	FUNCTIONS - F
<b>The Real Number System (N-RN)</b>	<b>Interpreting Functions (F-IF)</b>
● A2.N-RN.A <a href="#">Extend the properties of exponents to rational exponents.</a>	● A2.F-IF.B <a href="#">Interpret functions that arise in applications in terms of the context.</a>
<b>Quantities (N-Q)</b>	● A2.F-IF.C <a href="#">Analyze functions using different representations.</a>
▲ A2.N-Q.A <a href="#">Reason quantitatively and use units to solve problems.</a>	<b>Building Functions (F-BF)</b>
<b>The Complex Number System (N - CN)</b>	● A2.F-BF.A <a href="#">Build a function that models a relationship between two quantities.</a>
▲ A2.N-CN.A <a href="#">Perform arithmetic operations with complex numbers.</a>	● A2.F-BF.B <a href="#">Build new functions from existing functions.</a>
● A2.N-CN.C <a href="#">Use complex numbers in polynomial identities and equations.</a>	<b>Linear, Quadratic, and Exponential Models (F-LE)</b>
<b>ALGEBRA - A</b>	● A2.F-LE.A <a href="#">Construct and compare linear, quadratic, and exponential models and solve problems.</a>
<b>Seeing Structure in Expressions (A-SSE)</b>	● A2.F-LE.B <a href="#">Interpret expressions for functions in terms of the situation they model.</a>
▲ A2.A-SSE.A <a href="#">Interpret the structure of expressions.</a>	<b>Trigonometric Functions (F-TF)</b>
▲ A2.A-SSE.B <a href="#">Write expressions in equivalent forms to solve problems.</a>	▲ A2.F-TF.A <a href="#">Extend the domain of trigonometric functions using the unit circle.</a>
<b>Arithmetic with Polynomials and Rational Expressions (A-APR)</b>	▲ A2.F-TF.B <a href="#">Model periodic phenomena with trigonometric functions.</a>
● A2.A-APR.B <a href="#">Understand the relationship between zeros and factors of polynomials.</a>	▲ A2.F-TF.C <a href="#">Apply trigonometric identities.</a>
▲ A2.A-APR.C <a href="#">Use polynomial identities to solve problems.</a>	<b>STATISTICS AND PROBABILITY - S</b>
▲ A2.A-APR.D <a href="#">Rewrite rational expressions.</a>	<b>Interpreting Categorical and Quantitative Data (S-ID)</b>
<b>Creating Equations (A-CED)</b>	▲ A2.S-ID.A <a href="#">Summarize, represent, and interpret data on a single count or measurement variable.</a>
● A2.A-CED.A <a href="#">Create equations that describe numbers or relationships.</a>	▲ A2.S-ID.B <a href="#">Summarize, represent, and interpret data on two categorical and quantitative variables.</a>
<b>Reasoning with Equations and Inequalities (A-REI)</b>	● A2.S-ID.C <a href="#">Interpret models.</a>
● A2.A-REI.A <a href="#">Understand solving equations as a process of reasoning and explain the reasoning.</a>	<b>Making Inferences and Justifying Conclusions (S-IC)</b>
▲ A2.A-REI.B <a href="#">Solve equations and inequalities in one variable.</a>	▲ A2.S-IC.A <a href="#">Understand and evaluate random processes underlying statistical experiments.</a>
▲ A2.A-REI.C <a href="#">Solve systems of equations.</a>	▲ A2.S-IC.B <a href="#">Make inferences and justify conclusions from experiments, and observational studies.</a>
▲ A2.A-REI.D <a href="#">Represent and solve equations and inequalities graphically.</a>	<b>Conditional Probability and the Rules of Probability (S-CP)</b>
	● A2.S-CP.A <a href="#">Understand independence and conditional probability and use them to interpret data.</a>
	● A2.S-CP.B <a href="#">Use the rules of probability to compute probabilities of compound events in a uniform probability model.</a>