

Appendix: Implementing District Standards

The North Carolina Common Core Standards that will be implemented in this unit are standards A.CED.3, A.REI.5, A.REI.6, and A.REI.11.

Standard A.CED.3: Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context. Standard A.REI.5: Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions. Standard A.REI.6: Solve systems of linear equations exactly and approximately (e.g. with graphs), focusing on pairs of linear equations in two variables. Standard A.REI.11: Explain why the x-coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$; find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations.

This unit will allow students to use strategies to strengthen their knowledge by working with and understanding functions in more complex methods.