## Scope and Sequence 2022-2023

Please Note: All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended timeline and sequence to be used voluntarily by teachers for planning purposes. Specific question regarding when content will be addressed in a specific course are best answered by the individual teacher.

## Course Resources

## Publisher Resource:

Aleks program via McGraw-Hill resources

## In Foundational Skills Mathematics 9-12, instructional time will emphasize:

## Semester 1

(1) Instruction and strategies that will support students as they prepare to take the FSA Algebra 1 EOC retake;
(2) Extending understanding of functions to linear, quadratic and exponential functions and using them to model and analyze real-world relationships;
(3) Solving quadratic equations in one variable and systems of linear equations and inequalities in two variables;
(4) Representing and interpreting categorical and numerical data with one and two variables.

## Semester 2

(1) Proving and applying relationships and theorems involving two-dimensional figures using Euclidean geometry and coordinate geometry;
(2) Establishing congruence and similarity using criteria from Euclidean geometry and using rigid transformations;
(3) Extending knowledge of geometric measurement to two-dimensional figures and three-dimensional figures;
(4) Creating and applying equations of circles in the coordinate plane and;
(5) Developing an understanding of right triangle trigonometry.

| Quarter 1 (August 10 - October 14) | Quarter 2 (October 18 - December 21) |
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| Curriculum Map 1: Statistics <br> Represent data using various presentations Interpreting data distributions and comparing center and spread <br> Interpreting differences in shape, center and spread of data Represent and interpret categorical and numerical data with one and two variables <br> Curriculum Map 2A: Linear Relationships <br> Solving multi-step equations <br> Multiple representations of linear functions <br> Determining key features of linear functions <br> Write equations of lines. | Curriculum Map 2B: Linear Relationships <br> Write equations and inequalities of linear relationships <br> Sole and graph linear equations <br> Solve and graph linear inequalities <br> Curriculum Map 3: Quadratic Functions <br> Identify, interpret, and compare key features of quadratic functions mathematically and within context. <br> Identify transformations of quadratic functions. <br> Write and graph quadratic functions <br> Calculate and interpret the average rate of change over a specified interval <br> Solve quadratic equations using factoring, completing the square, taking square roots, and quadratic formula. <br> Rewrite equivalent expressions of radicals using rational exponents. <br> Rewrite equivalent expressions/equations of quadratic functions. Solve and interpret the solution of non-linear systems. |
| Quarter 3 (January 5 - March 9) | Quarter 4 (March 20 - May 25) |
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