



## College Algebra and Trigonometry Instruction in the West Shore School District

Mathematics instruction in the West Shore School District is aligned to the PA Core Standards and identified best practices. We utilize a variety of strategies and differentiate our instruction to meet the needs of all learners. Technology and 21<sup>st</sup> Century Skills are thoughtfully woven into our lessons and units of instruction. This document is meant to offer an overview of important concepts in this course.

### **Best Practices in College Algebra and Trigonometry:**

- College Algebra & Trig is a half-credit, one semester course that reinforces mathematical concepts taught through Algebra 2, and introduces students to concepts encountered in a post-secondary mathematics education.
- Emphasis is placed on interpreting mathematical concepts in the context of authentic applications and regression analysis. There will be extensive training and use of graphing calculators.

### **Skills and Concepts:**

Algebraic concepts including, but not limited to, Linear, Quadratic, Radical, Rational, Exponential, and Logarithmic equations, as well as an introduction to Trigonometric functions from a basic "triangular" perspective to the more advanced "circular" perspective.

### **Standards:**

College Algebra & Trig is designed, taught, and paced in a manner sufficient to prepare students for enrollment to PreCalculus at the West Shore School District.

### **Materials and Resources:**

College Algebra & Trigonometry, by Lial, Hornsby, Schneider, Daniels