



Pre-Calculus 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 21st 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 Pre-Calculus:

- An investigation in functions: composition, graphical analysis, inverses and modeling.
- Exploring the connections between algebraic, numeric and graphing representations.
- Emphasis on understanding mathematical concepts through the use of a graphing calculator.
- A focus will be given to developing students' ability to recognize and apply core mathematical principles across a variety of disciplines.
- All mathematical content within units or topics should incorporate a connection to real world applications.

Skills and Concepts:

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

Standards:

[SAS](#)

Assessments:

WSSD utilizes a variety of assessments to monitor student growth and achievement. Our teachers engage in daily informal formative assessments to make timely decisions about whether a student understands the material and concepts being presented. We also utilize several summative assessments to determine if a student has mastered grade level skills and standards.

Materials and Resources:

WSSD utilizes a variety of resources to meet all learners' needs.