



AP 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 AP Calculus:

Calculus is an advanced mathematics course for students wishing to pursue a career in a field directly related to mathematics or the physical sciences. It provides the equivalent of at least one semester of college work in calculus. Topics covered include algebra of functions, limits, derivatives, and integrals. A graphing calculator is required for this course. The TI-89 Titanium is recommended

Skills and Concepts:

Limits, Derivatives, Integrals, and Infinite Series over polynomial, rational, radical, exponential, logarithmic, and trigonometric functions, as well as parametric and polar equations.

Standards:

AP Calculus-BC is designed, taught, and paced in a manner sufficient to prepare students for the Advanced Placement test in Calculus-BC:

[College Board](#)

Materials and Resources:

Calculus: Graphical, Numerical, Algebraic, by Finney