



AP Calculus BC Yearly Overview

Quarter 1	Unit 1: Limits and Continuity	Unit 2: Differentiation: Definition and Basic Derivative Rules	Unit 3: Differentiation: Composite, Implicit, and Inverse Functions	Unit 4: Contextual Applications of Differentiation
Quarter 2	Unit 5: Analytical Applications of Differentiation	Unit 6: Integration and Accumulation of Change	Unit 7: Differential Equations	Unit 8: Applications of Integration
Quarter 3	Unit 9: Parametric Equations, Polar Coordinates, and Vector-Valued Functions		Unit 10: Infinite Sequences and Series	
Quarter 4	AP Review and Post AP Topics			

VDOE Process Goals

- To build new mathematical knowledge through problem solving and to develop a repertoire of skills and strategies for solving a variety of problem types (**Problem Solving**)
- To communicate mathematical ideas coherently and clearly and to analyze and evaluate the mathematical thinking of others (**Communication**)
- To use logical reasoning in solving mathematical problems and to explain and justify mathematical ideas (**Reasoning**)
- To understand how mathematical ideas interconnect and build on one another and to use those connections to solve problems (**Connections**)
- To create and use a variety of representations in learning, doing, and communicating mathematics (**Representations**)