AP Calculus AB Yearly Overview

Quarter 1	Unit 1: Limits and Continuity	Unit 2: Differentiation: Definition and Fundamental Properties	Unit 3: Differentiation: Composite, Implicit, and Inverse Functions

Quarter 2	Unit 4: Contextual Applications of Differentiation		Unit 5: Analytical Applications of Differentiation

Quarter 3	Unit 6: Integration and Accumulation of Change	Unit 7: Differential Equations	Unit 8: Applications of Integration

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)**

Loudoun County Public Schools