

AP Calculus AB

2008-2009

1st 6 Weeks

1 st day duties	1 Day
Chapter 1	9 Days
Chapter 2	5 Days

Days on Calendar 14 Days

2nd 6 Weeks

Chapter 2	8 Days
Chapter 3	6 Days

Days on Calendar 14 Days

3rd 6 Weeks

Chapter 3	8 Days
Chapter 4	6 Days

Days on Calendar 14 Days

4th 6 Weeks

Chapter 4	7 Days
Chapter 5	7 Days

Days on Calendar 14 Days

5th 6 Weeks

Chapter 5	2 Days
Chapter 6	4 Days
Chapter 7	4 Days
Chapter 8	4 Days

Days on Calendar 14 Days

6th 6 Weeks

AP Review	6 Days
AP Projects/Labs	8 Days

Days on Calendar 14 Days

1st SIX WEEKS

Chapter 1: Limits and Their Properties

Day 1	1.1 A Preview of Calculus
Day 2	1.2 Finding Limits Graphically and Numerically
Day 3	1.3 Evaluating Limits Analytically
Day 4	1.4 Continuity & One-Sided Limits
Day 5	1.5 Infinite Limits
Day 6	3.5 Limits at Infinity
Day 7	AP Extension Activity
Day 8	Review
Day 9	Ch. 1 Test

TOTAL DAYS 9

Chapter 2: Differentiation

Day 1	2.1 The Derivative and the Tangent Line Problem
Day 2	2.2 Basic Differentiation Rules and Rates of Change
Day 3	2.3 Product and Quotient Rules and Higher Order Derivatives
Day 4	2.3 Product and Quotient Rules and Higher Order Derivatives
Day 5	2.4 The Chain Rule

2nd SIX WEEKS

Day 6	2.4 The Chain Rule
Day 7	2.4 The Chain Rule
Day 8	2.5 Implicit Differentiation
Day 9	2.6 Related Rates
Day 10	2.6 Related Rates
Day 11	AP Extension Activity
Day 12	Review
Day 13	Ch. 2 Test

TOTAL DAYS 13

Chapter 3: Applications of Differentiation

Day 1	3.1 Extrema on an Interval
Day 2	3.2 Rolle's Theorem and the Mean Value Theorem
Day 3	3.3 Increasing & Decreasing Functions & the First Derivative Test
Day 4	3.4 Concavity and the Second Derivative Test
Day 5	3.6 A Summary of Curve Sketching
Day 6	3.6 A Summary of Curve Sketching

3rd SIX WEEKS

Day 7	Review
Day 8	3.7 Optimization Problems
Day 9	3.7 Optimization Problems
Day 10	3.7 Optimization Problems
Day 11	3.8/3.9 Newton's Method & Differentials
Day 12	AP Extension Activity
Day 13	Review
Day 14	Ch. 3 Test

TOTAL DAYS 14

Chapter 4: Integration

Day 1	4.2 Area (Sigma Notation and Sigma Sums only)
Day 2	4.2 Area
Day 3	4.3 Riemann Sums and Area of Known Geometric Shapes
Day 4	AP Extension Activity
Day 5	4.1 Antiderivatives and Indefinite Integration
Day 6	4.3 Definite Integrals
Day 7	4.4 The Fundamental Theorem of Calculus

4th SIX WEEKS

Day 8	4.5 Integration by Substitution
Day 9	4.5 Integration by Substitution
Day 10	4.5 Integration by Substitution
Day 11	4.6 Numerical Integration (Omit Simpson's Rule)
Day 12	AP Extension Activity
Day 13	Review
Day 14	Ch. 4 Test

TOTAL DAYS 14

Chapter 5: Logarithmic, Exponential, & other Transcendental Functions

Day 1	5.1 The Natural Logarithmic Function: Differentiation
Day 2	5.2 The Natural Logarithmic Function: Integration
Day 3	5.3 Inverse Functions
Day 4	5.4 Exponential Functions: Differentiation and Integration
Day 5	5.5 Bases other than e and Applications
Day 6	5.6 Inverse Trigonometric Functions: Differentiation
Day 7	5.7 Inverse Trigonometric Functions: Integration

5th SIX WEEKS

Day 8	Review
Day 9	Ch. 5 Test

TOTAL DAYS 9

Chapter 6-8: Differentials, Applications of Integration (continued)

Day 1	6.1 Slope Fields (omit Euler's Method)
Day 2	6.2 Differential Equations: Growth and Decay
Day 3	6.3 Separation of Variables and the Logistic Equation
Day 4	6.3 Separation of Variables and the Logistic Equation
Day 5	7.1 Area of a Region Between Two Curves
Day 6	7.2 Volume: The Disc Method
Day 7	7.2 Volume: Volumes with Known Cross Sections
Day 8	8.1 Basic Integration Rules
Day 9	AP Extension Activity
Day 10	Review
Day 11	Ch. 6-8 Test

TOTAL DAYS 11

An Extension of Topics

Day 1	7.3 Volume: The Shell Method
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6th SIX WEEKS

AP Exam Review/Projects