

AP Calculus AB Scope and Sequence 2025-2026

AP Learning Objective Distribution among Units

	CHA-1.A	СНД-ЭД	CHA-2.B	CHA-2.C	CHA-3 D	CHA-3.A	CHA-3.B	CHA-3.C	CHA-3.D	CHA-3.E	CHA.3-F	-4.	-4.	-4	CHA-4.D	\-4.	CHA5.A	CHA-5.B	CHA-5.C	LIM-1.A	LIM-1.B	<u>:</u>	LIM-1.D	LIM-1.E	2.	LIM-2.B	2	2.	ယ်	LIM-4.A	.IM-5.	LIM-5.B	_			UN-1.	JN-2.	FUN-3.A		FUN-3.C		ω.	FUN-3.F	
Unit 1	Х																			Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ						Χ										
Unit 2		Х		Х	Х																								Χ								Χ	Χ	Χ					i
Unit 3																																								Χ	Χ	Χ	Χ	
Unit 4						Χ	Х	Χ	Х	Χ	Χ																			Χ														i
Unit 5																																			Χ	Χ								
Unit 6												Χ																			Χ	Χ	Χ											i
Unit 7																																												
Unit 8													Χ	Χ	Χ	Х	Χ	Χ	Χ																									1
Unit 9	Х	Х	Х	Х	Х	Χ	Х	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Х	Х	Χ	Х	Х	Χ	Χ	Χ	Х	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Х	Х	Х	Χ	Х	Х	Х

	FUN-4.A	FUN-4.B	FUN-4.C	FUN-4.D	FUN4E	FUN-5.A	FUN-6.A	FUN-6.B	FUN-6.C	FUN-6.D	FUN-7.A	FUN-7.B	FUN-7.C	FUN-7.D	FUN-7.E	FUN-7.F	FUN-7.G
Unit 1																	
Unit 2																	
Unit 3																	
Unit 4																	
Unit 5	Χ	Χ	Χ	Χ	Χ												
Unit 6						Χ	Χ	Χ	Χ	Χ							
Unit 7											Χ	Χ	Χ	Χ	Χ	Χ	Χ
Unit 8																	
Unit 9	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ



AP Calculus AB Scope and Sequence 2025-2026

Grading Period 1

Unit 1: Limits and Continuity

Estimated Date Range: 8/12/25 – 9/12/25 (23 total school days)
Instructional & Re-engagement Days in Unit: 23

		Instructional & Re-engagement Days in Unit: 23							
		Assessments							
STATE/NATIONAL ASSESSMENT(S) N/A		DISTRICT ASSESSMENT(S) N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A						
Concepts within the Unit		AP Learning Ol	bjectives						
Concept #1: Intro to Calculus and Finding Limits Graphically and Numerically (Topics 1.1, 1.2, 1.3, and 1.4) Suggested Days: 7	CHA-1.A Interpret the rate of change at an instant in terms of average rates of change over intervals containing that instant. LIM-1.A Express limits analytically using correct notation LIM-1.B Interpret limits expressed in analytic notation. LIM-1.C Estimate limits of functions								
Concept #2: Evaluating Limits Algebraically (Topics 1.5, 1.6, 1.7, 1.8 and 1.9) Suggested Days: 6		D Determine the limits of functions using limit theore E Determine the limits of functions using equivalent of							
Concept #3: Continuity and one-sided Limits (Topics 1.10, 1.11, 1.12, 1.13, 1.14, 1.15, and 1.16) Suggested Days: 7	LIM-2.A Justify conclusions about continuity at a point using the definition. LIM-2.B Determine intervals over which a function is continuous. LIM-2.C Determine values of x or solve for parameters that make discontinuous functions continuous, it possible. LIM-2.D Interpret the behavior of functions using limits involving infinity. FUN-1.A Explain the behavior of a function on an interval using the Intermediate Value Theorem.								



Unit 2: Differentiation: Definition and Basic Derivative Rules

Estimated Date Range: 9/15/25 – 10/10/25 (19 total school days)
Instructional & Re-engagement Days in Unit: 19 days

		Assessments	
STATE/NATIONAL ASSESSMENT(S) N/A		COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A	
Concepts within the Unit		AP Learning O	bjective
Concept #1: Defining the Derivative (Topics 2.1, 2.2, 2.3 and 2.4) Suggested Days: 4	CHA-2 CHA-2 CHA-2	A Determine average rates of change using difference. B Represent the derivative of a function as the limit of a Continuous continuous. C Determine the equation of a line tangent to a curve of D Estimate derivatives. A Explain the relationship between differentiability a	of a difference quotient. e at a given point.
Concept #2: Derivative Rules: Power Rule, Constant, Sum, Difference, Constant Multiple, and Transcendental Functions (Topics 2.5, 2.6 and 2.7) Suggested Days: 5		A Calculate derivatives of familiar functions. A Interpret a limit as a definition of a derivative.	
Concept #3: Derivative Rules: Product and Quotient Rules (Topics 2.8, 2.9 and 2.10) Suggested Days: 4	FUN-3	.B Calculate derivatives of products and quotients of	differentiable functions.



Grading Period 2

Unit 3: Differentiation: Composite, Implicit and Inverse Functions

Estimated Date Range: 10/21/25 – 11/7/25 (14 total school days)
Instructional & Re-Engagement Days in Unit: 14 days

		Assessments	
STATE/NATIONAL ASSESSMENT(S) N/A		DISTRICT ASSESSMENT(S) N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A
Concepts within the Unit		AP Learning Ol	bjective
Concept #1: The Chain Rule and Implicit Differentiation (Topics 3.1 and 3.2) Suggested Days: 4 Concept #2: Differentiating Inverse Functions (Topics 3.3, and 3.4) Suggested Days: 3	FUN-3	B.C Calculate derivatives of compositions of differentia B.D Calculate derivatives of implicitly defined functions B.E Calculate derivatives of inverse and inverse trigono	5.
Concept #3: Higher Order Derivatives (Topics 3.5 and 3.6) Suggested Days: 3	FUN-3	B.F Determine higher order derivatives of a function.	
		Unit 4: Contextual Applications of Differentiation Estimated Date Range: 11/10/25 – 12/5/25 (15 total school days)	

Estimated Date Range: 11/10/25 – 12/5/25 (15 total school days)
Instructional & Re-engagement Days in Unit: 15 days

		Assessments				
STATE/NATIONAL ASSESSMENT(S) N/A		DISTRICT ASSESSMENT(S) N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A			
Concepts within the Unit		AP Learning Ol	pjective			
Concept #1: Derivatives in Applied Contexts	CHA-3	CHA-3.A Interpret the meaning of a derivative in context.				
(Topics 4.1, 4.2 and 4.3)	CHA-3	B.B Calculate rates of change in applied contexts.				





5.3, 5.4, 5.5, and 5.6) Suggested Days: 5

Suggested Days: 3	CHA-3.C Interpret rates of change in applied contexts.
Concept #2: Related Rates (Topics 4.4 and	CHA-3.D Calculate related rates in applied contexts.
4.5)	CHA-3.E Interpret related rates in applied contexts.
Suggested Days: 4	
Concept #3: Local Linear Approximations	CHA-3.F Approximate a value on a curve using the equation of a tangent line.
(Topic 4.6)	
Suggested Days: 2	
Concept #4: L'Hospital's Rule (Topic 4.7)	LIM-4.A Determine limits of functions that result in indeterminate forms.
Suggested Days: 2	

Unit 5: Analytical Applications of Differentiation (Continues in Grading Period 3)

Estimated Date Range: 12/8/25 – 1/23/25 (21 total school days)
Instructional & Re-engagement Days in Unit: 17 days (6 days in GP2 and 11 days in GP3)
See details in Grading Period 3

	Asses	sments								
STATE/NATIONAL ASSESSMENT(S)	DISTRICT ASSESSMENT(S)	COMMON FORMATIVE	Semester Exams							
N/A	N/A	ASSESSMENTS (CFAs)	(4 days)							
		(administered within designated concept)	Testing Window (12/16 – 12/19)							
		N/A								
Concepts within the Unit		AP Learning Objective								
Concept #1: Mean Value Theorem and	FUN-1.B Justify conclusions about	FUN-1.B Justify conclusions about functions by applying the Mean Value Theorem over an interval.								
Extreme Value Theorem (Topics 5.1 and	FUN-1.C Justify conclusions about	FUN-1.C Justify conclusions about functions by applying the Extreme Value Theorem.								
5.2)	·									
Suggested Days: 5										
Concept #2: Analyzing Functions (Topics	FUN-4.A Justify conclusions abo	ut the behavior of a function based on the	e behavior of its derivatives.							

Grading Period 3

Unit 5: Analytical Applications of Differentiation (Continues in Grading Period 3)

Estimated Date Range: 12/8/25 - 1/23/25 (21 total school days) Instructional & Re-engagement Days in Unit: 17 days (6 days in GP2 and 11 days in GP3) See details in Grading Period 2





		Assessments							
STATE/NATIONAL ASSESSMENT(S) N/A	DISTRICT ASSESSMENT(S) N/A COMMON FORMATIVE ASSESSMENTS (CI (administered within designated concept) N/A								
Concepts within the Unit		AP Learning O	bjective						
Concept #3: Analyzing Functions and Curve Sketching (Topics 5.7, 5.8 and 5.9) Suggested Days: 4	FUN-4.A Justify conclusions about the behavior of a function based on the behavior of its derivatives.								
Concept #4: Optimization Problems (Topics	FUN-4	I.B Calculate minimum and maximum values in applied	d contexts or analysis of functions.						
5.10 and 5.11) Suggested Days: 3	FUN-4	I.C Interpret minimum and maximum values calculated	d in applied contexts.						
Concept #5: Exploring Behaviors of Implicit	FUN-4	Determine critical points of implicit relations							
Relations (Topic 5.12)		I.E Justify conclusions about the behavior of an implici	tly defined function based on evidence from its						
Suggested Days: 3	deriva	Unit 6: Integration and Accumulation of Change							
		Estimated Date Range: 1/26/25 – 2/26/25 (22 total school days) Instructional & Re-engagement Days in Unit: 22 days							
		Assessments							
STATE/NATIONAL ASSESSMENT(S) K-12 TELPAS (2/17 - 3/27)		DISTRICT ASSESSMENT(S) N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A						
Concepts within the Unit		AP Learning O	bjective						
Concept #1: Exploring Accumulations and	CHA-4	A.A Interpret the meaning of areas associated with the	graph of a rate of change in context.						
Riemann sums (Topics 6.1, 6.2, and 6.3)		A Approximate a definite integral using geometric and							
Suggested Days: 5	LIM-5.B Interpret the limiting case of the Riemann sum as a definite integral.								
	LIM-5.C Represent the limiting case of the Riemann sum as a definite integral.								
Concept #2: Accumulation Functions (Topics 6.4 and 6.5) Suggested Days: 4	FUN-5.A Represent accumulation functions using definite integrals.								





Concept #3: Properties od Definite Integrals (Topics 6.6 and 6.7) Suggested Days: 5	FUN-6.A Calculate a definite integral using areas and properties of definite integrals. FUN-6.B Evaluate definite integrals analytically using the Fundamental Theorem of Calculus.							
Concept #4: Finding Antiderivatives and Techniques for Integration (Topics 6.8, 6.9 and 6.10) Suggested Days: 5	FUN-6.C Determine antiderivatives of functions and indefinite integrals, using knowledge of derivatives. FUN-6.D For integrands requiring substitution or rearrangements into equivalent forms: (a) Determine indefinite integrals. (b) Evaluate definite integrals.							
		Unit 7: Differential Equations Estimated Date Range: 2/27/25 – 3/13/25 (10 total school da Instructional & Re-engagement Days in Unit: 9 days	ys)					
		Assessments						
STATE/NATIONAL ASSESSMENT(S) K-12 TELPAS (2/17 - 3/27) SAT (3/4)		DISTRICT ASSESSMENT(S) N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A					
Concepts within the Unit	AP Learning Objective							
Concept #1: Modeling with Differential Equations and Slope Fields (Topics 7.1, 7.2, 7.3, and 7.4) Suggested Days: 3	FUN-7	A Interpret verbal statements of problems as differential equations. C Estimate solutions to differential equations.	ential equations involving a derivative expression.					
Concept #2: Solving Differential Equations	FUN-7	.D Determine general solutions to differential equati	ons.					
(Topics 7.6, 7.7, and 7.8)	FUN-7	.E Determine particular solutions to differential equa	itions.					
Suggested Days: 4		F Interpret the meaning of a differential equation ar						
	FUN-7	G Determine general and particular solutions for pro	oblems involving differential equations in context.					



Gradi	ng Pei	riod 4
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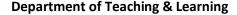
Unit 8: Applications of Integration

Estimated Date Range: 3/23/25 – 4/28/25 (26 total school days) Instructional & Re-engagement Days in Unit: 26 days

		Assessments							
		Assessments							
STATE/NATIONAL ASSESSMENT(S)		DISTRICT ASSESSMENT(S)	COMMON FORMATIVE ASSESSMENTS (CFAs)						
K-12 TELPAS (2/17 - 3/27)		N/A	(administered within designated concept)						
			N/A						
Concepts within the Unit		AP Learning O	bjective						
Concept #1: Average Value and	CHA-4	.B Determine the average value of a function using de	efinite integrals						
Applications involving Rectilinear Motions	CHA-4	CHA-4.C Determine values for positions and rates of change using definite integrals in problems involving							
and Rate of Change (Topics 8.1, 8.2 and	rectilinear motion.								
8.3)	CHA-4	.D Interpret the meaning of a definite integral in accu	imulation problems.						
Suggested Days: 6	CHA-4	.E Determine net change using definite integrals in ap	pplied contexts.						
Concept #2: Area (Topics 8.4, 8.5 and 8.6)	CHA-5	.A Calculate areas in the plane using the definite integrated	gral.						
Suggested Days: 6									
Concept #3: Volume (Topics 8.7, 8.8, 8.9,	CHA-5	.B Calculate volumes of solids with known cross section	ons using definite integrals						
8.10, 8.11, and 8.12)	CHA-5	.C Calculate volumes of solids of revolution using defi	inite integrals.						
Suggested Days: 9	uggested Days: 9								
	Unit 9: AP Review and Extension Topics								

Estimated Date Range: April 29 – May 28 (21 total school days) Instructional & Re-engagement Days in Unit: 16 days

Assessments			
AP Exams (5/4-5/15) 1 day	DISTRICT ASSESSMENT(S) N/A	COMMON FORMATIVE ASSESSMENTS (CFAs) (administered within designated concept) N/A	Semester Exams (4 days) Testing Window (5/22 – 5/28)
Concepts within the Unit	AP Learning Objective		
Concept #1: Limits	LIM-1.A Express limits analytically using correct notation		
Suggested Days: Determined by individual	LIM-1.B Interpret limits expressed in analytic notation.		
student need	LIM-1.C Estimate limits of functions		





LIM-1.D Determine the limits of functions using limit theorems. LIM-1.E Determine the limits of functions using equivalent expressions for the function or the squeeze theorem. LIM-2.A Justify conclusions about continuity at a point using the definition. LIM-2.B Determine intervals over which a function is continuous. LIM-2.C Determine values of x or solve for parameters that make discontinuous functions continuous, if possible. LIM-2.D Interpret the behavior of functions using limits involving infinity. CHA-1.A Interpret the rate of change at an instant in terms of average rates of change over intervals containing that instant. FUN-1.A Explain the behavior of a function on an interval using the Intermediate Value Theorem. Concept #2: Derivatives LIM-3.A Interpret a limit as a definition of a derivative. Suggested Days: Determined by individual LIM-4.A Determine limits of functions that result in indeterminate forms. student need CHA-2.A Determine average rates of change using difference quotients. CHA-2.B Represent the derivative of a function as the limit of a difference quotient. CHA-2.C Determine the equation of a line tangent to a curve at a given point. CHA-2.D Estimate derivatives. CHA-3.A Interpret the meaning of a derivative in context. CHA-3.B Calculate rates of change in applied contexts. CHA-3.C Interpret rates of change in applied contexts. CHA-3.D Calculate related rates in applied contexts. CHA-3.E Interpret related rates in applied contexts. CHA-3.F Approximate a value on a curve using the equation of a tangent line. FUN-2.A Explain the relationship between differentiability and continuity. FUN-3.A Calculate derivatives of familiar functions. FUN-3.B Calculate derivatives of products and quotients of differentiable functions. FUN-3.C Calculate derivatives of compositions of differentiable functions. FUN-3.D Calculate derivatives of implicitly defined functions. FUN-3.E Calculate derivatives of inverse and inverse trigonometric functions. FUN-3.F Determine higher order derivatives of a function. FUN-1.B Justify conclusions about functions by applying the Mean Value Theorem over an interval. FUN-1.C Justify conclusions about functions by applying the Extreme Value Theorem. FUN-4.A Justify conclusions about the behavior of a function based on the behavior of its derivatives. FUN-4.B Calculate minimum and maximum values in applied contexts or analysis of functions. FUN-4.C Interpret minimum and maximum values calculated in applied contexts.





	FUN-4.D Determine critical points of implicit relations		
	FUN-4.E Justify conclusions about the behavior of an implicitly defined function based on evidence from its		
	derivatives		
Concept #2. Integrals and the Fundamental			
Concept #3: Integrals and the Fundamental	LIM-5.A Approximate a definite integral using geometric and numerical methods.		
Theorem of Calculus	LIM-5.B Interpret the limiting case of the Riemann sum as a definite integral.		
Suggested Days: Determined by individual	LIM-5.C Represent the limiting case of the Riemann sum as a definite integral.		
student need	CHA-4.A Interpret the meaning of areas associated with the graph of a rate of change in context.		
	CHA-4.B Determine the average value of a function using definite integrals		
	CHA-4.C Determine values for positions and rates of change using definite integrals in problems involving		
	rectilinear motion.		
	CHA-4.D Interpret the meaning of a definite integral in accumulation problems.		
	CHA-4.E Determine net change using definite integrals in applied contexts.		
	CHA-5.A Calculate areas in the plane using the definite integral.		
	CHA-5.B Calculate volumes of solids with known cross sections using definite integrals		
	CHA-5.C Calculate volumes of solids of revolution using definite integrals.		
	FUN-5.A Represent accumulation functions using definite integrals.		
	FUN-6.A Calculate a definite integral using areas and properties of definite integrals.		
	FUN-6.B Evaluate definite integrals analytically using the Fundamental Theorem of Calculus.		
	FUN-6.C Determine antiderivatives of functions and indefinite integrals, using knowledge of derivatives.		
	FUN-6.D For integrands requiring substitution or rearrangements into equivalent forms: (a) Determine		
	indefinite integrals. (b) Evaluate definite integrals.		
	FUN-7.A Interpret verbal statements of problems as differential equations involving a derivative expression.		
	FUN-7.B Verify solutions to differential equations.		
	FUN-7.C Estimate solutions to differential equations.		
	FUN-7.D Determine general solutions to differential equations.		
	FUN-7.E Determine particular solutions to differential equations.		
	FUN-7.F Interpret the meaning of a differential equation and its variables in context.		
	FUN-7.G Determine general and particular solutions for problems involving differential equations in context.		



