

AP Calculus BC Year at a Glance (YAG) 2021-2022



1 st Nine Weeks – 40 days	First Semester		Second Semester		
1 st Nine Weeks – 40 days (August 19 th – October 15 th) (September 2 nd – Labor day – No School) (October 14 th – Staff Development)		3 rd Nine Weeks – 45 days (January 6 th – March 17 th) (January 20 th – MLK – No School) (March 9 th – 13 th – Spring Break)			
	ntent	EU 2.3 EU 3.3 EU 3.5	Unit 9: Integration techniques, growth and decay (11 days)		
EU 1.1, EU 1.2 Un Stu	it 1: Limits (9 days) Idents will determine limits ebraically, graphically, and tabularly.	EU 3.5	Students will use various integration techniques to solve various growth and decay problems.		
Un: Rul Stu EU 2.2 EU 2.3 EU der	it 2: The Derivative and Derivative les (11 days) idents will explore the concept o the rivative and determine derivatives for ariety of functions.	EU 3.3, EU 1.1	Unit 10: Improper integrals and L'Hopitals Rule(10 days) Students will determine limits using L'Hopital's rule and then use those limits to evaluate improper integrals.		
EU 2.3 Ana day Stu bet	idents will analyze the relationships ween a function and its derivative.	EU 2.2, EU 2.3, EU 3.4	Unit 11:Polar, Parametric, and Vector Equations (12 days) Students will explore motion of objects in 2 dimensions, using vectors, parametric and polar functions.		
Rat Stu	it 4: Optimization and Related tes (8 days) Idents will apply derivatives in a riety of real world contexts.	EU 4.1 EU 4.2	Unit 12: Series Convergence (12 days) Students will analyze various series using the various series convergence tests.		
2 nd Nine Weeks – 43 days (October 16 th – December 20 st)			4 th Nine Weeks – 45 days		
(November $25^{th} - 29^{th} - Thanksgiving Break)$ (December $23^{rd} - January 3^{rd} - Holiday Break)$		(March 18 th – May 21 rd) (April 10 th – Good Friday – No School) (April 24 th – Battle of Flowers – No School) (May 25 th – Memorial Day – No School)			
3.3, EU 3.4 And The Stu Fur	it 5: Riemann Sums, tidifferentiation and Fundamental eorem of Calculus (9 days) Idents will explore the concept of the Indamental Theorem of Calculus and egration.	EU 4.2	Unit 13: Taylor Series (15 days) Students will use the Taylor formula to represent a variety of functions as series and analyze the error of these series. Unit 14: AP Review Multiple Choice (13 days)		
Fui day Stu	it 6: Application of the ndamental Theorem of Calculus (7 y) idents will apply the F.T.C. in a variety real world contexts.	ALL	Students will review all concepts presented in this class in order to prepare for the AP test. Unit 15: AP Review Free Response (13 days) Students will review all concepts presented		
Stu	it 7: Area and Volume (10 days) Idents will find the area and volume various irregular figures.		in this class in order to prepare for the AP test. Semester Exam Review (4 days)		
1	it 8: Differential Equations (11				
day Stu	ys) Idents will solve and apply differential Lations in a variety of contexts.				



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1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks