



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



First Semester		Second Semester	
1st Nine Weeks – 40 days (August 19 th – October 15 th) <i>(September 2nd – Labor day – No School)</i> <i>(October 14th – Staff Development)</i>		3rd Nine Weeks – 45 days (January 6 th – March 17 th) <i>(January 20th – MLK – No School)</i> <i>(March 9th – 13th – Spring Break)</i>	
College Board Standard EU 1.1, EU 1.2 EU 2.1, EU 2.2 EU 2.3	Unit 1: Limits (10 days) Students will determine limits algebraically, graphically, and tabularly. Unit 2: The Derivative and Derivative Rules (15 days) Students will explore the concept o the derivative and determine derivatives for a variety of functions. Unit 3: Mechanics of Motion (15 days) Students will explore the Calculus of motion.	EU 3.1, EU 3.2 EU 3.3, EU 3.4 EU 3.3, EU 3.4 EU 3.5	Unit 7: Riemann Sums and Antidifferentiation (15 days) Students will determine the area under a function using a Riemann sum, analyze its significance and relate that value to the antiderivative. Unit 8: Fundamental Theorem of Calculus (8 days) Students will explore the concept of the Fundamental Theorem of Calculus and integration. Unit 9: Application of the Fundamental Theorem of Calculus (10 days) Students will apply the F.T.C. in a variety of real world contexts. Unit 10: Differential Equations (12 days) Students will solve and apply differential equations in a variety of contexts.
2nd Nine Weeks – 43 days (October 16 th – December 20 th) <i>(November 25th – 29th – Thanksgiving Break)</i> <i>(December 23rd – January 3rd – Holiday Break)</i>		4th Nine Weeks – 45 days (March 18 th – May 21 st) <i>(April 10th – Good Friday – No School)</i> <i>(April 24th – Battle of Flowers – No School)</i> <i>(May 25th – Memorial Day – No School)</i>	
EU 2.2, EU 2.4 EU 2.3 EU 2.3	Unit 4: Analyzing f, f', f'' Relationships (15 days) Students will analyze the relationships between a function and its derivative. Unit 5: Optimization (12 days) Students will apply derivatives in a variety of real world contexts. Unit 6: Related Rates (12 days) Students will apply derivatives in a variety of real world contexts. Semester Exam/Review (4 days)	EU 3.4 All All	Unit 10: Area and Volume (15 days) Students will find the area and volume of various irregular figures. Unit 11: AP Review Multiple Choice (12 days) Students will review all concepts presented in this class in order to prepare for the AP test. Unit 12: AP Review Free Response (12 Days) Students will review all concepts presented in this class in order to prepare for the AP test. Semester Exam/Review (6 days)

Resources

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