AB Calculus   August 2023   Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
7 Day 1 Course Intro (Syllabus/ Course Overview) Start Chapter P Packet	**8** Chapter P Unit (Day 1) Functions, Properties, and their Graphs HW: Complete Day 1 pages	**9** Chapter P Unit (Day 2) : Parent Graphs and Transformations HW: Complete Day 2 pages	**10** Chapter P Unit (Day 3) : Trig Review, Exponential Functions & Log Review HW: Complete Day 3 pages	**11** Day 4 Notes (Miscellaneous) Chapter P Unit Review HW: Complete Day 4 and Ch. P Review pages (Due Monday 8/14)
14 Ch. 1.1 - 1.2a Introducing Calculus, Rates of Change , Defining Limits and finding Limits Graphically HW: pg. 89 AP Practice 1-8 all	**15** 1.2b Techniques for finding Limits (Algebraic, Numeric, Graph) HW: Pg. 99-102 #31-49 odds	**16** 1.2c Techniques for finding Limits (Algebraic, Numeric, Graph) HW: Pg. 99-102 53, 59, 85, 89, AP Practice 1-8 all	**17** 1.2 Limits Quiz Review	**18** **1.2 Limits Quiz**
21 1.3a – Types of Discontinuity & Continuity conditions HW: pg. 112-117 #13,15,17,25,29,35,	**22** 1.3b – Types of Discontinuity & Continuity conditions HW: pg. 112-117 # 37, 45, AP Practice 1-5 all	**23** 1.3c Notes - Intermediate Value Theorem (IVT) & 1.4 Squeeze Theorem HW: pg. 112-117 #59,63,65, AP Problems 6-11 all Pg. 125 #3,5-8 all	**24** 1.5a Notes – Infinite Limits (V.A.) and Limits at Infinity (H.A.) HW: Pg. 140-143 #9-23 odds, 27-49 odds, 59,60,73,	**25** 1.5b Notes – Infinite Limits (V.A.) and Limits at Infinity (H.A.) HW: Pg. 140-143 AP Practice 1-11 all
28 Chapter 1 Limits Test Review	**29** Chapter 1 Limits Test Review	**30** **Chapter 1 Limits Test**	**31** 2.1-2.2 Notes Limit definitions of a derivative HW: Pg. 171 AP Practice 1-8 all	**Sept 1** 2.2 Notes Limit definitions of a derivative (Day 2) HW: Pg. 182-183 #55-65 odd AP Practice #1-11 all **(HW Due Thurs 9/7)**

AB Calculus   September 2023   Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
4 **Labor Day**	5 **Teacher Workday**	6 **Professional Development Day**	7 2.3a – Derivative Power Rule HW: Pg. 190-193 #7-21 odd, 63 AP Practice #1,2,3,5,6,10,11	8 2.3b – Position – Velocity-Acceleration HW: Worksheet problems (pg. 28-32 in packet due Monday 9/11)
11 2.4 - Product Rule and Quotient Rule HW: Pg. 202-207 *#23,25,27,31,33, 35, 69,71*	12 2.3-2.4 Quiz Review HW: Pg. 207 AP Practice (2.4) #1-8 (skip 4 and 9)	13 3.1 – Chain Rule HW: Pg.231-235 #19, 21,29,43,75 *(Due Friday 9/15)*	14 **2.3-2.4 Quiz** (Power Rule, Particle Motion, Product&Quotient Rule)	15 3.2 – Implicit Differentiation HW: Pg. 242-245 #13,15,23,39

Monday	Tuesday	Wednesday	Thursday	Friday
18 Ch.2-3 Test Review	19 Ch.2-3 Test Review	20 Ch.2-3 Test Review	21 Ch.2-3 Test Review	22 **Ch.2-3 Test (Limit Definition, Power Rule, Product/Quotient, PVA, Chain Rule, Implicit Differentiation)**
25 4.2 Notes- Linear Approximation and rates of change other than motion and HW: 4.3a Related Rates Notes Intro HW: pg. 278-281 #35-38 all	26 4.3 – Related Rates Notes *HW:* Pg. 286-291 #9,10,22,23,35,38	27 4.3 – Related Rates (Day *2*) HW: Pg. 286-291 19,39,40,53	28 4.4 Notes - Indeterminate Form and L'Hopital's Rule HW: 4.3 Related Rates (pg. 290-291) AP Practice 1-9 all	29 4.1-4.4 Quiz Review

AB Calculus   October 2023   Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
2 4.1-4.4 Quiz Review	3 **4.1-4.4 Quiz (Related Rates, Linear Approximation, L'Hopital's Rule)**	4 5.1 notes – Extreme Value Theorem (EVT) and Absolute Extrema HW: Pg. 316-319 #7, 39,43,47,49,51,53, AP Practice 1-6 all	5 5.2 – Mean Value Theorem (MVT) and Rolle's Theorem HW: pg. 327-331 #9,17,25, 27,31,37,68, AP Practice 1-10 all	6 5.3a – First Derivative Test HW: pg. 343-347 13,19, 29,41, 47, 49, 51, 59,67,69, 77,92, 94, 99 AP Practice 1-4 all
9 **Columbus Day (No School)**	10 **Teacher Workday**	11 **Teacher Workday (Professional Development Day)**	12 5.3b – Test for Concavity, 2nd Derivative Test HW: pg. 343-347 13,19, 29,41, 47, 49, 51, 59,67,69, 77,92, 94, 99 AP Practice 1-4 all	13 5.1-5.3 Quiz Review
16 5.1-5.3 Quiz Review	17 **5.1-5.3 Quiz**	18 5.4a – Sketching a Curve HW: Pg. 358-359 #1,3,9,11,13,19,25,33,39,41,43,53,55	19 5.3b - Sketching Derivative Graphs HW: Pg. 344-345 #35-38 all 63,64,65,66	20 5.5 – Optimization HW: Pg. 366-370 #5,6,7,9,12, AP Practice 1-5 all
23 Chapter 5 Test Review	24 PSAT Day Chapter 5 Test Review	25 Chapter 5 Test Review	26 Chapter 5 Test Review	27 **Ch. 5 Test (Applications of derivatives, Curve Sketching, Theorems, & Optimization)**

AB Calculus   November 2023   Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
Oct 30 Unit L: **Logs and Exponentials Derivatives Unit** L.1 – L.2 Natural Logs Derivatives & Log Differentiation	Oct 31 L.3 – Inverse Functions (Derivative of Inverse at a Point)	Nov 1 L.4 – Exponential Function e^x (Properties & Derivatives)	2 L.5 – Exponentials of Other Bases $(y = b^x)$	3 Unit L Quiz Review
6 Unit L Quiz Review	7 **Election Day (No School)**	8 Unit L Quiz Review	9 Unit L Quiz Review	10 **Unit L Quiz (Logs and Exponentials Derivatives Unit)**
13 Begin Unit T **(Trig Unit)** T.1 Trig Review and T.2 Trig Derivatives	14 T.2a Trig Derivatives	15 T.2a Trig Derivatives Review **(Senior Service Day)**	16 T.2b Trig Derivatives Day 2	17 Trig Derivatives Review Day 3 Trig Derivatives Quiz will be Tuesday after Thanksgiving Break (Tues 11/28)
20 Thanksgiving Break	21 Thanksgiving Break	22 Thanksgiving Break	23 Thanksgiving Break	24 Thanksgiving Break

AB Calculus   December 2023   Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
Nov 27 Trig Derivatives Quiz Review	Nov 28 T.3 – Curve Sketching Trig Functions	Nov 29 **Trig Derivatives Quiz**	Nov 30 T.4 - MVT and Rolle's Theorem (Trig Functions)	Dec 1 T.5 – Trig Related Rates
Dec 4 T.6 – Inverse Trig Derivatives	5 Trig Unit Test Review	6 Trig Unit Test Review	7 Trig Unit Test Review	8 Trig Unit Test Review
11 **Trig Unit Test**	12 Makeup test/recovery day **Full School Day**	13 Makeup test/recovery **Half Day** (1st , 2ⁿᵈ, 3ʳᵈ periods)	14 Makeup test/recovery **Half Day** (4th , 5ᵗʰ 6ᵗʰ)	15 Makeup test/recovery **Half Day** (7ᵗʰ period and teacher appointments)
18 Winter Break	19 Winter Break	20 Winter Break	21 Winter Break	22 Winter Break
25 Winter Break	26 Winter Break	27 Winter Break	28 Winter Break	29 Winter Break