BC Calculus January 2024 Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
1 **Winter Break**	2 **Teacher Workday (No School)**	3 6.6 – Integration by Parts HW: pg. 471-473 #3, 5 ,13,17, 37, AP Practice problems (1-6 all)	4 6.10 – Using Linear Partial Fractions HW: pg. 502-504 #3,5,7,21,31,49, AP Practice (1-4 all)	5 6.12 – Evaluating Improper Integrals HW: Pg. 523-526 #7,11,15,19,23,27,31, 35,45, AP Practice (1-7 all) Revisit 4.4 L'Hopital's Rule & Indeterminate Form
8 7.4– Euler's Method Pg. 559 #3-9 odds and AP Practice (1-2)	9 7.5 - Logistic Models with Differential Equations Pg. 565-566 #5, 9, 11,15,17,19,21 ,25, 27,29,33, AP (1-9 all)	10 8.5 – Arc Length of Curve and Distance Traveled Pg. 618-620 #9, 17, 23, 26,29, 31, 36, 42, 47, AP (#1-5 all)	11 Ch. 6-8 BC Topics Quiz Review	12 Ch. 6-8 BC Topics Quiz Review
15 **MLK Day** **No School**	16 **Teacher Workday** *(No School)*	17 Ch. 6-8 BC Topics Quiz Review	18 **Ch. 6-8 BC Topics Quiz**	19 9.1 – Defining and Differentiating Parametric Equations Pg. 648-651 #7, 11, 13,17, 19, 21, 35, 41, 43, 51, 53, 55, 59, 63, 69, 73, AP (1-4)
22 9.2 – Equation of tangent line on curve, arc length & 2nd Derivative of Parametric Equations HW: Pg. 658-660 #5, 7, 13, 19, 21, 23, 27, 31, 33, 39, 47, 51, AP (1-7 all)	23 9.3 – Graph Polar Equation & Polar Arc Length HW: pg. 667-668 #5, 11, 13, 19, 27, 29, 54, 57, AP (1-5 all)	24 9.5a – Derivatives of Vector Functions (arc length) Pg. 681-683 #11, 17, 23-37 odds, 34, 36, 45, 51	25 9.5b – Derivatives of Vector Functions (arc length) HW: pg. 681-683 #57, 63, 67, 73, 77, 79, AP (1-7 all)	26 9.6 – Motion along a Curve HW: pg. 687-689 #7-27 odd, 35, 37, AP (1-6 all) 9.7 – Integrals of Vector Functions and Projectile Motion HW: pg. 694-696 #1,2, 3-29 odd
29 9.4 – Area in Polar Coordinates HW: Pg. 673 1-25 odds	30 9.4b – Polar Area HW: Pg. 673-674 #29, 31, 35, 37, 41, 46, AP (1-5 all)	31 9.4 Polar Area Review	Feb 1 9.1-9.7 Test Review HW: pg. 694-696 #31-43 odds, AP (1-6 all)	Feb 2 9.1-9.7 Test Review

BC Calculus February 2024 Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
5 10.1 – Define Convergent and Divergent Infinite Series HW: Pg. 718-721 #15, 17, 25, 27, 29, 31, 37, 39,45,51,59,61, 63, 67, 73 81, 89,99	6 **9.1-9.7 Test**	7 10.2 – Working with Geometric Series HW: (10.1b) Pg. 718-721 #101, 105, 111, AP (1-5 all) HW 10.2a pg. 731-734 #11, 17-57 odds, 68	8 10.3 – n^{th} term Test, Integral Test, P-Series Test for Convergence HW 10.2b pg. 731-734 #59-75 odd, 83, AP (1-6 all) HW 10.3a – pg. 743-746 #9, 11, 15-47 odd	9 10.4 – Direct and Limit Comparison Tests for Convergence HW 10.3b pg. 743-746 #49-63 odds, 67, AP (1-7 all) HW 10.4a pg. 752-754 #5-27 odd,37-51 odds
12 10.5 – Alternating Series Test for Convergence & Absolute vs Conditional Convergence **10.4b** # 55, 57, 72-73, AP (1-4 all) **10.5a** – pg.762-765 #1-15 odd, 19, 23,29,37-51 odds	13 10.6 – Ratio and Root Test for Convergence 10.6a HW – pg. 770-772 #1-33 odds	14 10.7 – Choosing Test for Convergence 10.6b – pg. 770-772 #47-57 odds, 58, AP (1-5 all)	15 10.1-10.7 Quiz Review 10.7 – pg. 775 #1-6 all, 7-19 odds, 25-33 all, 44	16 10.1-10.7 Quiz Review
19 **President's Day** (No School)	20 **Teacher Workday** (No School)	21 10.5b – Alt. Series Error Bound 10.8 – Power Series and Interval of Convergence 10.5b pg. 762-765– #53, 55, 59, 61-67 odd, and AP (1-6 all) Pg. 786-789 #4, 9, 11, 15-43 odds	22 **10.1-10.7 Quiz**	23 10.8b – Power Series and Interval of Convergence (day 2) Pg. 786-789 #45-59 odds, 65, 69, AP (1-8 all)
26 10.9 – Taylor and Maclaurin Series Pg. 797-799 Memorize Table 7 (pg. 797) #3, 9, 13, 17, 21, 29	27 10.9b – Taylor and Maclaurin Series (day 2) Pg. 797-799 #35, 37, 39, 41, 48, all AP (1-6 all)	28 10.10 – Taylor Polynomial approximations and Lagrange Error Bound Pg. 805 1-14 all	29 10.10b – Taylor Polynomial approximations and Lagrange Error Bound (day 2) Pg. 805-806 15, 18, 19, 23, AP (1-7 all)	March 1 Chapter 10 Test Review HW: Ch. 10 Review problems Pg. 811-812 #1,3,5,13-27 odds, 38, 42, 44, 52, 55-65 odd, 68

BC Calculus March 2024 Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
4 Chapter 10 Test Review Pg. 813-814 AP Problems (#1-11 all)	5 Chapter 10 Test Review Pg. 813-814 AP Problems (#12-19 all)	6 Chapter 10 Test Review	7 **Chapter 10 Test**	8 Taylor Series FRQ Practice Day 1
11 **Teacher Workday** (No School)	12 **Teacher Workday** (No School)	13 Taylor Series FRQ Practice Day 2	14 Taylor Series FRQ Practice Day 3	15 Particle Motions FRQ Practice
18 Particle Motions FRQ Practice	19 Taylor Series and Particle Motions FRQ Practice	20 Taylor Series and Particle Motions FRQ Practice	21 **AP FRQ Test 1 (Series and Particle Motion)** **(50 HW + 50 Test = 100 point test grade)**	22 AP Review (AB Topics) Topic 1 – 3 (Limits/Continuity, Differentiation, Related Rates AP Review AB Graphs
25 Topic 4-5 (AB Topics) (Theorems: EVT, MVT, Rolle's and Curve Sketching/Derivative	26 AB Topics Review	27 AP Review BC Topics 6-8 Area/Volume, Euler's Method, Logistics, Improper Integrals	28 AP Review Topic 9 Convergence Tests and Taylor Series	29 AP Review Topic 10-11 Parametric and Polar

BC Calculus April 2024 Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
4/1 SPRING BREAK	4/2 SPRING BREAK	4/3 SPRING BREAK	4/4 SPRING BREAK	4/5 SPRING BREAK
8 Polar FRQs Review Packet #2: HW pgs. 13-16	9 Polar FRQs Review Packet #2: HW pgs. 17-20	10 AB FRQ Topics (Riemann Sums, Differential Equations, Derivative Graphs) Packet #2: HW pgs. 21-24	11 AB FRQ Topics (Riemann Sums, Differential Equations, Derivative Graphs) Packet #2: HW pgs. 25-28	12 FRQ AP Pre-Test Quiz 2 Review (Polar Area and AB topic FRQ: Riemann, Diff Eq, or Derivative Graphs)
15 FRQ AP Pre-Test Quiz 2 Review (Polar Area and AB topic FRQ: Riemann, Diff Eq, or Derivative Graphs)	16 **FRQ AP Pre-Test 2 (Polar Area and AB topic FRQ: Riemann, Diff Eq, or Derivative Graphs)** **(50HW + 50 Quiz = 100 point quiz grade)**	17 MC Pre-Test Review WS #1 Packet #3: HW pgs. 1-4	18 MC Pre-Test Review WS #2 Packet #3: HW pgs. 5-8	19 AP Exam Details and Tips MC Pre-Test Review WS #3 Packet #3: HW pgs. 9-12
22 **Multiple Choice AP Pre-Test 3 Part 1 (AB Topics) 8 MCs #1-8, 25 points, 30 minutes)** Packet #3: HW pgs. 13-16	23 MC Pre-Test Review WS #4 (BC Topics) Packet #3: HW pgs. 17-20	24 MC Pre-Test Review WS #5 (BC Topics) Packet #3: HW pgs. 21-24	25 **Multiple Choice AP Pre-Test 3 Part 2 BC Topic 8 MCs #9-16, 25 points, 30 minutes)** **25 MC + 25 MC + 50 HW = 100 point Test (Major Grade)** Packet #3: HW pgs. 25-28	26 AP Exam Details and Tips and AP Review

BC Calculus May 2024 Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
April 29 AP Assessment #4 & 5 **FRQ (2023)** pg. 1-6 (17 pts) & **2012 MC test** Non-Calculator (25 pts) *Classwork and HW (no late penalty)	April 30 AP Assessment #4 & 5 **FRQ (2022)** pg. 7-13 (17 pts) & **2012 MC test** Calculator-portion (25 pts) *Classwork and HW (no late penalty)	May 1 AP Assessment #4 & 5 **FRQ(2021)** pg. 15-20 (17 pts) & **2014 MC test** Non-Calculator (25 pts) *Classwork and HW (no late penalty)	May 2 AP Assessment #4 & 5 **FRQ(2019 & 2018)** pg. 21-26 (17 pts) & **2014 MC test** Calculator-portion (25 pts) *Classwork and HW (no late penalty)	May 3 AP Assessment #4 & 5 **FRQ (2016 & 2017)** pg. 27-38 (32 pts) *Classwork and HW (no late penalty)
May 6 AP Assessment #4 & 5 **FRQ (2023)** pg. 1-6 (17 pts) & **2012 MC test** Non-Calculator (25 pts) *Classwork and HW (no late penalty)	7 AP Assessment #4 & 5 **FRQ (2022)** pg. 7-13 (17 pts) & **2012 MC test** Calculator-portion (25 pts) *Classwork and HW (no late penalty)	8 AP Assessment #4 & 5 **FRQ(2021)** pg. 15-20 (17 pts) & **2014 MC test** Non-Calculator (25 pts) *Classwork and HW (no late penalty)	9 AP Assessment #4 & 5 **FRQ(2019 & 2018)** pg. 21-26 (17 pts) & **2014 MC test** Calculator-portion (25 pts) *Classwork and HW (no late penalty)	10 AP Assessment #4 & 5 **FRQ (2016 & 2017)** pg. 27-38 (32 pts) *Classwork and HW (no late penalty)
13 **AP CALCULUS EXAM DAY 8am MAIN GYM**	14 Help Session *Classwork & HW grade makeups *Assessment Recovery or makeups	15 Help Session *Classwork & HW grade makeups *Assessment Recovery or makeups	16 Help Session *Classwork & HW grade makeups *Assessment Recovery or makeups	17 Help Session *Classwork & HW grade makeups *Assessment Recovery or makeups
20 **Graduation Date May 20 at 7:30pm** Help Session *Classwork & HW grade makeups *Assessment Recovery or makeups	21 Half Day 8:20-12:40pm Help Session *Classwork & HW grade makeups *Assessment Recovery or makeups	22 Half Day 8:20-12:40pm Help Session *Classwork & HW grade makeups *Assessment Recovery or makeups	23 **Last Day of School** Half Day 8:20-12:40pm Help Session *Classwork & HW grade makeups *Assessment Recovery or makeups	24 Teacher Post-Planning Day

Remaining Spring Semester 2024 Grades:

1) **AP Assessment #1 FRQ Test** – HW **AP Packet #1** 50pts + FRQ 50pts → **100 point major grade**

2) **AP Assessment #2 FRQ Quiz** – HW **AP Packet #2** 50pts + FRQ 50pts →**100 point minor grade**

3) **AP Assessment #3 - AP Multiple Choice Test** (split into two 30 minute test dates due to EOC schedule)

MC day 1 (25 pts) + MC day 2 (25 pts) + HW **AP Packet 3** (50 pts) → **100 point major grade**

*4) **AP Assessment #4 (Take Home)** AP AP Calc AB FRQs (2016 – 2023) **4/29 – 5/3 → 100 point minor grade**

*5) **AP Assessment #5 (Take Home)** AP Practice(2012 & 2014 & AP Problems) **4/29 –5/3 →100 pt minor grade**

***** Take Home Assessments (#4 and #5) can be turned in anytime until May 13 (Monday). Be sure to show all of your work as well as corrections (from keys) in different color ink.