

# TABLE OF CONTENTS

## AP Calculus BC

Entry	Topic	Date
1	Trig Review	8/20
2	Lesson 1.1: Limits & Continuity	8/24
3	Lesson 1.2: IVT & Graphing Adjustments	8/25
4	Lesson 1.3: Infinite Limits, Limits at Infinity, and Curve Sketching	8/26
5	Lesson 1.4: Limit Definition of Derivative	8/27
6	Lesson 1.5: Limit Laws & The Squeeze Theorem	8/31
7	Lesson 2.1: Differentiation Rules, Tangent Lines & Rates of Change	9/1
8	Lesson 2.2: Product Rule, Quotient Rule & Trig Rules	9/2
9	Lesson 2.3: Logarithmic Functions & Log Derivatives	9/3
10	Lesson 2.4: The Chain Rule	9/4
11	Lesson 3.1: Implicit Differentiation	9/8
12	Lesson 3.2: Derivatives of Inverse Functions	9/9
13	Lesson 3.3: Derivatives of Inverse Trig Functions	9/10
14	Lesson 4.1 Derivatives in Context	9/14
15	Lesson 4.2 Related Rates	9/15
16	Lesson 4.3 Approximating Using The Tangent Line	9/16
17	Lesson 4.4 L'Hospital's Rule	9/17
18	Lesson 5.1: Absolute Extrema & The Mean Value Theorem	9/21
19	Lesson 5.2: Increasing/Decreasing Functions & The First Derivative Test	9/22
20	Lesson 5.3: Concavity, Points of Inflection & The Second Derivative Test	9/23
21	Lesson 5.4: Curve Sketching with Extrema & Points of Inflection	9/24
22	Lesson 5.5: Graphing Derivatives & Antiderivatives from Graphs	9/24
23	Lesson 5.6: Optimization	9/28
24	Lesson 6.1 Antiderivatives	10/5

Entry	Topic	Date
25	Lesson 6.2: Reverse Chain Rule & u-Substitution	10/6
26	Lesson 6.3: Definite Integrals & The First Fundamental Theorem	10/7
27	Lesson 6.4: The Second Fundamental Theorem of Calculus	10/7
28	Lesson 6.5: Approximations Using Riemann & Trapezoidal Sums	10/8
29	Lesson 6.6: Derivatives and Integrals of Exponential Functions	10/12
30	Lesson 6.7: Integration by Parts	10/14
31	Lesson 6.8: Partial Fractions	10/14
32	Lesson 6.9: Improper Integrals	10/15
33	Lesson 7.1: Solving Differential Equations	10/20
34	Lesson 7.2: Exponential Growth & Decay	10/21
35	Lesson 7.3: Slope Fields	10/22
36	Lesson 7.4: Euler's Method	10/22
37	Lesson 7.5: Logistic Equations	10/26
38	Lesson 8.1: Rate Graphs & Average Value of a Function	10/27
39	Lesson 8.2: Area Between Curves	10/28
40	Lesson 8.3: Volume of Solids With Known Cross Sections	10/29
41	Lesson 8.4: Shell Method & Arc Length	11/2
42	Lesson 9.1: Parametric Equations	11/9
43	Lesson 9.2: Polar Graphs	11/9
44	Lesson 9.3: Polar Area and Arc Length	11/12
45	Lesson 9.4: Vector Definitions	11/12
46	Lesson 9.5: Calculus of Vector Valued Functions	11/13
47	Lesson 10.1: Sequences	11/16
48	Lesson 10.2: Convergent/Divergent Series, Geometric Series & The nth Term Test	11/17
49	Lesson 10.3: Power Series, Geometric Power Series & Integration/Differentiation of Power Series	11/19
50	Lesson 10.4: Taylor Series	11/30
51	Lesson 10.5: Elementary & Alternating Series	11/30

Entry	Topic	Date
52	Lesson 10.6: Error Approximations	12/1
53	Lesson 10.7: Integral Test & p-Series Test	12/2
54	Lesson 10.8: Direct Comparison Test & Limit Comparison Test	12/3
55	Lesson 10.9: Ratio Test	12/7
56	Lesson 10.10: Absolute vs. Conditional Convergence	12/8