2023 UTC AP Calculus AB APSI: Daily Schedule 8-5

Monday 6/19

8:00-10:20am	Starting the year with Local Linearity and Introductions Introduction Activity and Introductions 	
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	Exploring Limits, Continuity and the Derivative	
	Limits	
	Continuity	
	Derivatives Basics	
10:20-10:35		Morning Break
10:35-12:00pm	Exploring all the CED's have to offer	
	Course outline	
	Mathematical Practices	
	Pacing Guide	
	Suggested strategies	
	CED Scavenger Hunt*	
12-12:45		Lunch
12:45-3:00pm	More with Derivative Rules	
	Chain Rule	
	Composite functions	
	Implicit Functions	
	Inverse Functions	
3:00-3:10		Afternoon Break
3:10-4:45pm	Tools and Resources to support struggling Learners	
	Classroom resources	
	Online Resources	
	 Building your own activities with online platforms* 	
	 Work on course outline and pacing guide* 	
4:45-5:00pm	Debrief and closing activity	

Tuesday 6/20

8:00-10:20 am	Greetings and morning challenge More with Derivative Rules • Chain Rule • Composite functions • Implicit Functions • Inverse Functions
10:20-10:35	Morning Break
10:35-12:00pm	 Relationships between f, f', f" and Existence Theorems Seeing the relationships between functions and their derivatives in multiple representation including, analytically, graphically, and in writing. Desmos activities* IVT, EVT, MVT
12-12:45	Lunch
12:45-2:45 pm	Applications of Differentiation Motion Related Rates Optimization L'Hopital's Rule
2:45-3:00	Afternoon Break
3:00-4:10pm	 A Deep Dive into using AP Classroom PPC's Topic Questions

	Creating your own assignments
	Analyzing the data
4:10-4:45	Focus on Continuous Improvement
	 Using the IPR to understand strengths/ weakness
4:45-5:00pm	Debrief and closing activity

Wednesday 6/21

8:00-10:20am	Greetings and morning challenge
	Introductions to Definite Integral and Riemann Sums
	Reimann Sums as a limit
	Calculating Area under the Curve
	• FTC
10:20-10:35	Morning Break
10:35-12:00pm	Techniques of Integration- (algebraic manipulation)
	Identifying basic antiderivatives
	U-substitution
	 Using long division to be able to integrate
	 Using completing the square to be able to integrate
12-12:45	Lunch
12:45-2:45pm	Applications of Integration
	Average value
	Revisiting Motion
	Functions defined by Integrals
	Accumulation of Rates of Change
2:45-2:55	Afternoon Break
2:55-4:45pm	Introduction to the Calculus Reading and Scoring FRQ's
	What is the reading like?
	How are FRQ's scored?
	 Data provided from past exams and how to use it.
	Time to work on classroom activities and planning for the coming year*
4:45-5:00pm	Debrief and closing activity

Thursday 6/22

8:00-10:20am	Greetings and morning challenge	
	Creating a Community of Learners	
	 Best practices and a Favorite activity share- bring one to share 	
	Being part of the AP Community	
	Exploring resources*	
10:20-10:35	Morning Break	
10:35-12:00pm	Area and Volume	
	Area of Know Cross Sections	
	 Volumes of solids rotated about the axis 	
	 Disk and Washer vs Shell method, what do I include? 	
12-12:45	Lunch	
1:00-2:20pm	Slope Fields and Differential Equations	
	Finding slope fields	
	Representing a differential equation in a graphical form	
	Solving differential equations	
2:20-2:30	Afternoon Break	
2:30-4:15pm	Thinking about Diversity, Equity and Access in the AP Classroom*	
	" The danger of a single story"	
	AP lever for Boosting Access Success and Equity	
	Diversity and Inclusion Activity-	
	Discussion: Diversity, Equity and Access	

4:15-5:00pm	Final share and Debrief.
	Share of contact information
	 Share of work you have done for upcoming year
	Final Evaluation

*Denotes an asynchronous activity

Canvas will contain a complete daily outline with specific activities, and any needed materials Schedule is tentative and subject to change