Mrs. Medlen AP Calculus AB Lesson Plans



	Monday 10/16	Tuesday 10/17	Wednesday 10/18	Thursday 10/19	Friday 10/20
College	The derivative can be used to solve rectilinear motion problems involving position, speed, velocity, and acceleration				
Board	(2.3C1) First and second derivatives of a function can provide information about the function and its graph including intervals of increase				
Curriculum	or decrease, local (relative) and global (absolute) extrema, intervals of upward or downwards concavity, and points of				
Framework	inflection. (2.2A1)				
Objectives:	Key features of functions and their derivatives can be identified and related to their graphical, numerical, and analytical representations. (2.2A2)				
	representations. (2.2112)				
			I		
Before:	*Review	*Homework	*Homework	*Homework	Homecoming
	Homework Set	Discussion/	Discussion/Review	Discussion/Review	Festivities
	(Graphs 1-3)	Review			
During:	*Lesson:	*Lesson:	*Lesson: Second	*Lesson: Sketching	*Finish AP
	Function	Function	Derivative Test	f'(x) given f(x)	FRQ's
	Analysis	Analysis, cont'd	(Examples 12-14)		
	(Examples 1, 2,	(Examples 7, 8,			
	3, 4, 9)	11, and HW Set			
		4, 6, 11)			
After:	*Group	*Group	*Group	*Group	*Work on
	Collaboration	Collaboration	Collaboration	Collaboration Set:	Khan Academy
	(HW Set, if not	(HW Set, if not	Activity (Example	AP FRQ (Function	Quizzes
	finished in class)	finished in class)	15 Chart Analysis)	Analysis)	
	p2, #5,6	p4, #3, 5, 7			
	p3, #10	p, #13, 14	*HW Set (2 nd		
	p4, #1,2		Derivative Test		
	p5, #9,10		and Chart		
			Analysis)		
Desired	Students will be able to use a number		Students will be	Students will be	Students will be
Outcome:	line analysis to find where a function is		able to use the	able to sketch the	able to analyze
	increasing and decreasing. Students		second derivative to	first derivative of a	the behavior of a
	will be able to find the relative extrema		discuss extrema.	function.	first and second
	of a function and also determine				derivative.
	Concevity.				Quin
Formative/	Student	Student	Student questioning	Student questioning	Quiz
Summative:	during lesson and	during lesson and	collaboration	collaboration	
	collaboration	collaboration	conaboration	conaboration	
Critical	Explain how the first derivative can be		Explain the 2 nd	Explain how to	
Questions	used to discuss whether a function is		Derivative Test and	sketch f'(x) aiven the	
2405010113.	increasing or decreasing. Explain how		what it can be used	graph of f(x).	
	to find relative extrema and concavity		for		
	of a function.				