Mrs. Medlen
AP Calculus AB
Lesson Plans

CARROLL HIGH SCHOOL

	Monday 10/30	**Tuesday 10/31**	**Wednesday 11/01**	**Thursday 11/02**	**Friday 11/03**
College Board Curriculum Framework Objectives:	*The derivative can be used to solve rectilinear motion problems involving position, speed, velocity, and acceleration (2.3C1)* First and second derivatives of a function can provide information about the function and its graph including intervals of increase or decrease, local (relative) and global (absolute) extrema, intervals of upward or downwards concavity, and points of inflection. (2.2A1) Key features of functions and their derivatives can be identified and related to their graphical, numerical, and analytical representations. (2.2A2)				
Before:	AP Forum (Work on FRQ presentations & Khan Academy)	*FRQ Presentations A-C	*FRQ Presentations D-E	*FRQ Presentations F-G	*Review Homework
During:					*Wrap Up IVT & MVT Lesson
After:		*Review f and f' matching 1-10 *Work on Khan Academy Quizzes	*Lesson: Intermediate Value Theorem	*Lesson: Mean Value Theorem *Group Collaboration Set/HW Set: IVT and MVT	*Graphing Calculator Activity (Derivatives on the GC)
Desired Outcome:	Students will work on AP free response questions.	Students will present their groups' FRQ. Students will be able to match derivative graph to function graphs.	Students will be able to explain the Intermediate Value Theorem and how it can be used to solve a problem.	Students will be able to explain the Mean Value Theorem and use it to solve problems.	Students will be able to use the graphing calculators to solve derivative problems.
Formative/ Summative:	n/a	Student questioning during FRQ presentations/ Khan Academy	Student questioning during presentations/ Lesson Khan Academy quizzes	Student questioning during presentations/ Lesson Khan Academy quizzes	Student questioning throughout lesson Khan Academy quizzes
Critical Questions:	*n/a*	*Explain how to use a NLA to match a derivative graph to the graph of its corresponding function*	*Explain the Intermediate Value Theorem*	*Explain the Mean Value Theorem. Explain the difference between the IVT and MVT.*	*Explain how the graphing calculator can be used to find derivatives. Explain how to find relative extrema using the GC.*