Mrs. Medlen
AP Calculus AB
Lesson Plans

	Monday 2/5	Tuesday 2/6	Wednesday 2/7	Thursday 2/8	Friday 2/9
College Board Curriculum Framework Objectives:	In some cases, a definite integral can be evaluated by using geometry and the connection between the definite integral and area (3.2C1)				
Before:	*Review Homework *Finish Riemann Sums Packet	*Lesson: Fundamental Theorem of Calculus	*Quiz (Riemann Sums and Area)	*Warm-Up AP Problem	*Warm-Up AP Problem *Review 2nd FTC
During:	*Group Collaboration Set	*Group Collaboration Set	*Finish Fundamental Theorem of Calculus	*Finish "Average Value/Average Rate" *Lesson: 2nd Fundamental Theorem of Calculus	*Detective's Hat Function Activity
After:	*Wrap Up (Discuss integrating a rate--- integrating a velocity---)	*Quiz Practice Set *Homework Set	*Average Value Formulas (Average What Handout)	*Spiral Review Set	*AP FRQ Group Collaboration Set
Desired Outcome:	Students will be able to approximate the area under a curve.	Students will use FTC to find area under a curve.	Students will be able to calculate the average value of a function.	Students will review rates of change and distinguish between average value and average rate problems.	Students will be able to use the 2nd FTC to solve problems.
Formative/ Summative:	Student questioning throughout lesson	Khan Academy Quiz	Quiz	Student questioning throughout lesson	Student questioning throughout lesson
Critical Questions:	*Explain how to use a Riemann Sum to approximate area under a curve.*	*Explain the Fundamental Theorem of Calculus*	*Explain how to find the average value of a function over an interval.*	*Explain the difference between average value and average rate of change.*	*Explain the 2nd Fundamental Theorem of Calculus.*