



	Monday 2/12	Tuesday 2/13	Wednesday 2/14	Thursday 2/15	Friday 2/16
College Board Curriculum Framework Objectives:	<p>In some cases, a definite integral can be evaluated by using geometry and the connection between the definite integral and area (3.2C1)</p> <p>The average value of a function f over an interval $[a,b]$ is $\frac{1}{b-a} \int_a^b f(x)dx$. (3.4B1)</p> <p>If f is a continuous function on the interval $[a,b]$, then $\frac{d}{dx} \left(\int_a^x f(t)dt \right) = f(x)$, where x is between a and b. (3.3A2) More general 2nd FTC $\frac{d}{dx} \int_a^{g(x)} f(t)dt = f(g(x))g'(x)$</p>				
Before:	*Discuss Average Value vs Rates of Change (Examples 1-5)	*Homework Review	*Partner's Quiz (Definite Integration, Average Value, 2 nd FTC)	*Check Notecards *Review Quiz	Student Holiday
During:	*Lesson: 2 nd FTC (Examples 1-4)	*Hat Detective HOT Problems	*Test Review Packet #1	*Test Review Packet #2	
After:	*Group Collaboration Set/HW Set	*Homework: Notecard Update	*Homework: Notecard Update	(Test Tuesday)	
Desired Outcome:	Students will be able to calculate the average value of a function & the average rate of a function. Students will be able to distinguish between the two.	Students will be able to use the 2 nd Fundamental Theorem of Calculus to solve problems.	Students will demonstrate their understanding of integration techniques and applications of integration.	Students will review concepts learned about integration and its applications.	
Formative/ Summative:	Student questioning throughout lesson Khan Academy Quiz	Student questioning throughout lesson Khan Academy Quiz	Quiz	n/a	
Critical Questions:	<i>Explain the difference between finding the average value of a function on an interval and the average rate of change.</i>	<i>Explain the 2nd Fundamental Theorem of Calculus.</i>	n/a	n/a	

