



	Monday 9/11	Tuesday 9/12	Wednesday 9/13	Thursday 9/14	Friday 9/15
<b>College Board Curriculum Framework Objectives:</b>	<i>Use information from a table to estimate the instantaneous rate of change at a given time (2.1B1)</i> <i>Understand AROC vs IROC and express AROC as a difference quotient (2.1A1)</i> <i>The derivative of a function is a limit of the difference quotient as <math>h</math> approaches 0. (2.1A3)</i> <i>Know the different notations for derivative (<math>dy/dx</math>, <math>f'(x)</math>, and <math>y'</math>). (2.1A4)</i> <i>The derivative is IROC and can be used to find rates of change. The derivative is the slope of the tangent line. (2.3)</i>				
<b>Before:</b>			*Homework Questions (28-33)	*Review Homework (Group Collaboration)	*Quiz: Techniques of Differentiation
<b>During:</b>			*Lesson: Horizontal Tangents & 2 <sup>nd</sup> Derivatives	*Cumulative Review Derivative Problems	*Lesson: Derivatives w/ Tabular Data
<b>After:</b>			*Group Collaboration Problems/HW Set	*Share/Discuss answers to Cumulative Review Derivative Problems	*Group Collaboration Set/HW Set
<b>Desired Outcome:</b>			Students will be able to find the location (x,y) of horizontal tangents given a function. Students will be able to find first and second derivatives.	Students will be able to find first and second derivatives, write equations of tangent lines, and find horizontal tangents given a function.	Students will be able to use a table of values to calculate derivatives.
<b>Formative/ Summative:</b>			*Student questioning during lesson and group collaboration	*Self-assessment (cumulative review)	*Quiz, student questioning during lesson and group collaboration
<b>Critical Questions:</b>			<i>Explain how to find the slope of a function at a given point.</i> <i>Explain how to determine the point at which a function has a horizontal tangent.</i> <i>What will this look like graphically?</i>	n/a	<i>Explain how to find the second derivative of a function. What notation can be used to denote first and second derivatives. How can a graphing calculator be used to find the second derivative?</i>