CARROLL HIGH SCHOOL

	Monday 9/25	Tuesday 9/26	Wednesday 9/27	Thursday 9/28	Friday 9/29
College Board Curriculum Framework Objectives:	*Use information from a table to estimate the instantaneous rate of change at a given time (2.1B1)* *Know the different notations for derivative (dy/dx, f'(x), and y'). (2.1A4)* *The derivative is IROC and can be used to find rates of change. The derivative is the slope of the tangent line. (2.3)* *The chain rule provides a way to differentiate composite functions. (2.1C4)*				
Before:	*HW Discussion	*HW Discussion *Trig Collaboration Set 1-6	*Quiz (Rules of Differentiation)	*HW Discussion	*Partner's Quiz (Differentiation Techniques)
During:	*Finish Trig Derivative Lesson *(Ex.e-i, 7-12, 15-16)*	*Lesson: Derivatives of Exp/Log Functions (ex1-20)	*Finish Lesson: Exp/Log Derivatives & Writing Equations	*Stamp Activity (Techniques of Differentiation)	*Lesson: Continuity & Differentiation And IVT
After:	*Discuss Rules Quiz (Wed) *Review Chain Rule Quiz *Homework: p2, #13, 14 P3-4, #9, 11-15, 16-17	*Homework: Finish working on ex 1-20 (Exp/log) & Study for Rules Quiz	*Homework: Finish Classwork problems & Discuss homework (ex 1-20)	*Homework: Begin Test Review Packet	*Homework: Test Review Packet
Desired Outcome:	Students will be able to differentiate trig functions.	Students will be able to differentiate exponential and log functions.	Students will be able to use exponential and log derivative rules to write equations of tangent lines.	Students will work in cooperative groups to solve problems dealing with derivatives.	Students will be able to discuss the continuity and differentiability of function.
Formative/ Summative:	Student questioning throughout lesson	Student questioning throughout lesson	Quiz/Student questioning throughout lesson	Stamp Activity	Quiz/Student questioning throughout lesson
Critical Questions:	*Explain the trig derivative rules.* *Explain the difference between differentiating y=sinx vs y=sin(u)?*	*Explain the exponential and logarithm derivative rules.*	*Explain how to find the equation of a tangent line.*	*n/a*	*Does continuity imply differentiability? Does differentiability imply continuity? Explain*