Name: Woods			Grading Quarter:1	Week Beginning: 9/2/24	
School Year: 24-25			Subject: AP Calculus AB		
Monday	Notes:	No school			
Tuesday	Notes:	Objective: Students will create a difference quotient to represent the slope of a curve. Lesson Overview: Notes: "Big picture" concept of what a derivative is and two ways to write one: a difference quotient in terms of a small horizontal distance <i>h</i> and a difference quotient between two x-values. Students work in partners to simplify difference quotients before trying book examples independently.			Academic Standards: AP Calculus AB 2.2 Defining the Derivative of a Function and Using Derivative Notation 1.D Identify an appropriate mathematical rule or procedure based on the relationship between concepts (e.g., rate of change and accumulation) or processes (e.g., differentiation and its inverse process, anti-differentiation) to solve problems.
Wednesday	Notes:	Objective: Student represent the slop Lesson Overview: <i>This is a continuati</i>	s will create a difference e of a curve. ion of yesterday's lesson	quotient to	Academic Standards: AP Calculus AB 2.2 Defining the Derivative of a Function and Using Derivative Notation 1.D Identify an appropriate mathematical rule or procedure based on the relationship between concepts (e.g., rate of change and accumulation) or processes (e.g., differentiation and its inverse process, anti-differentiation) to solve problems.

Thursday	Notes:	Objective: Students will use the power rule to find the	Academic Standards:
		derivative of polynomial functions.	AP Calculus AB
		Lesson Overview:	2.4 Connecting Differentiability and Continuity: Determining When Derivatives Do and Do Not
		Discuss when derivatives do not exist. Differentiability implies continuity. Difference between a tangent and normal line – focus on what information you need to create each of these things (a point and a slope). Connection between position, velocity, and acceleration. Students work in pairs on textbook problems.	<ul><li>Exist 3.E Provide reasons or rationales for solutions and conclusions.</li><li>2.5 Applying the Power Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology.</li></ul>
Friday	Notes:	Objective: Students will use the power rule to find the derivative of polynomial functions.	Academic Standards: AP Calculus AB
			2.4 Connecting Differentiability
		Lesson Overview:	and Continuity: Determining
		Independent practice on Khan Academy	When Derivatives Do and Do Not
			Exist 3.E Provide reasons or rationales for solutions and
			conclusions.
			2.5 Applying the Power Rule 1.E
			Apply appropriate mathematical
			rules or procedures, with and
			without technology.