

STRAND	STANDARD	OBJECTIVES (What it looks like in the classroom) The learner will ...	# OF DAYS NEEDED FOR MASTERY	DATES TAUGHT	DATE ASSESSED	ASSESSMENT TYPE (classroom, STAR, objective, subjective, project, etc.)	RESOURCES (Materials , web sites, auto- visual, print)	LEARNING ACTIVITIES
		Graph and analyze linear models & rates of change. (P)	3-5	Late Aug.	Sept.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Find limits graphically, numerically, and analytically. (1)	6-8	Sept.	Sept.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Examine basic and higher order differentiation rules. (2)	10-12	Sept./Oct.	Oct.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding

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		Apply implicit differentiation and related rates. (2)	5-7	Nov.	Dec.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Construct graphs using first and second derivatives and use inflection points and critical points to find concavity and extrema. (3)	4-6	Nov./Dec.	Dec.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Apply derivatives to find related rates, solve optimization problems, and find velocity and acceleration. (3)	8-10	Nov./Dec.	Dec.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding

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		Use Newton’s Method to generate zeros of a function. (3)	2-3	Dec.	Dec.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Solve differential equations. (3)	3-5	Dec.	Dec.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Examine indefinite and definite integration and The Fundamental Theorem of Calculus. (4)	6-8	Jan.	Jan.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding

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		Apply integration rules to solve problems involving volume, area, and production cost. (4)	10-12	Jan.	Jan.	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Integrate and differentiate logarithmic functions, exponential functions, inverse trig functions, and hyperbolic functions. (5)	14-16	Feb.	March	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Apply differentiation and integration to functions with bases other than e. (5)	3-5	March	March	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding

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		Apply differential equations to growth and decay functions. (6)	6-8	March/April	April	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Solve integration problems using separation of variables. (6)	4-6	April	April	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Find the area between two curves using both the disk method and the shell method. (7)	10-12	April/May	May	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding

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		Use integration to find volumes of revolution. (7)	8-10	May	May	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding
		Relate derivatives and integrals to the solving of engineering, biological, and business situations.	Ongoing	Ongoing	Ongoing	classroom	Larson-Hostetler-Edwards Calculus of a Single Variable Textbook	Direct Instruction, Guided Practice, check for understanding