AP Calculus: End of Year Project

Task: Your job will be to create an abridged AP Calculus Exam with 10 multiple choice questions and 2 free response questions.

Requirements:

- Must assess at least 10 different Calculus concepts
- Free response questions must incorporate ideas from more than one unit
- One of the free response questions must include a context
- At most one of the FRQs can require a calculator
- Questions must include content in multiple representations (graphical, numerical (tables), analytical (equations), and verbal)
- Questions must balance procedural skills with conceptual understanding
- Multiple choice wrong answers should reflect common mistakes
- Answer key for MC and free response scoring rubric
- Equal distribution of workload among group members
- Questions are original and not taken or modified from a preexisting question found online
- Typed using proper equation notation or hand-written (neatly)

Deadline	s: Final project due on	_
• Gr	roup established by	
• 3	MC questions due on	
• 3	MC questions due on	
• St	ems for both free response questions due by	(the stem is the problem
inf	fo given before any of the questions are asked)	
• Fir	rst draft of all questions due on	for review by your teacher

Collaboration:

You will be working in groups of 2, 3, or 4. You are allowed to choose your own groups with students in your hour. Collaboration can take place during class, via Google Meet/FaceTime outside of class or through Google docs.

Short tutorials will be provided on how to make graphs on Desmos and use the Equation Editor in Google Docs or Microsoft Word.



Rubric:

	1	2	3
Completion	5 MC questions and	10 MC and 1 FRQ or	10 MC questions and
	1 FRQ	7 MC and 2 FRQ	2 FRQs & Answer
			Key
Requirements	Misses 3 or more	Meets all but 1-2	Meets all
	requirements	requirements	requirements
Representations	Exam includes only	Exam includes 3	Exam includes all 4
	1-2 representations	representations	representations
Balance	Exam only includes	Exam includes mostly	Exam includes
	routine or procedural	routine or procedural	procedural and
	questions	questions	conceptual problems
			of varying difficulty
Collaboration	One group member	One group member	Work is distributed
	does the majority of	does significantly less	fairly equally among
	the work	than the rest of the	group members
		group	
Creativity	Questions are not at	Questions are	Questions are highly
	all original or creative	somewhat original	original and creative
		and creative	

Total:	/	1	8
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This project will be weighted as a test grade.

