

Content (50 points total)

50 pts	45 pts	40 pts	35 pts	10 pts
<p>All assigned work is fully completed.</p> <p>Handwritten work and worksheets are neat and organized. Problems and Guided WS are original, well-created. Solution Keys are accurate, no mistakes. Activity directions are clear. Activity is well-executed, tested, and effective. Food item is homemade, consistent with calculus topic theme. Students Work represents potentially more than 6 hours of class time and 8 hours of homework time per group member. Students use their group class time productively and efficiently. Attention paid to details.</p>	<p>All Assigned work is fully complete</p> <p>Handwritten work and worksheets are mostly neat and organized. Problems and Guided WS are original, well-created. Solution Keys are mostly accurate, with a few mistakes. Activity directions are mostly clear. Activity is well-executed, tested, and effective. Food item is homemade, consistent with calculus topic theme. Work represents mostly 6 hours of class time and 8 hours of homework time. Students uses most of their time to work effectively.</p>	<p>All Assigned work is mostly complete</p> <p>Handwritten work and worksheets are somewhat neat and organized. Problems and Guided WS are original, well-created. Solution Keys are mostly accurate, with a few mistakes. Students could have benefited from more attention to detail, proofread and correct mistakes. Activity directions are mostly clear. Activity is well-executed, tested, and effective. Food item is homemade, consistent with calculus topic theme. Work represents less than 6 hours of class time and 8 hours of homework time. Students uses some of their in class time to work effectively.</p>	<p>All Assigned work is mostly complete</p> <p>Handwritten work and worksheets are not very neat and organized. Problems and Guided WS are original, well-created. Solution Keys are mostly accurate, with a few mistakes. Students could have benefited from more attention to detail, proofread and correct mistakes. Activity directions are mostly clear. Activity is well-executed, tested, and effective. Food item is homemade, consistent with calculus topic theme. Work represents significantly less than 6 hours of class time and 8 hours of homework time. Students are distracted in class and do not use their time effectively</p>	<p>Missing/late work for assignment. Project is sloppy and not neat and organized. Work demonstrates only a few hours of total group time. Students use none or little of their class time to work on project and stay on task.</p>

Presentation (25 points total)

25 pts	20 pts	15 pts	10 pts	5 pts
<p>Presentation is exceptional. Tri-Fold Poster is colorful, creative, and attractive with great design, layout, and neatness.</p> <p>If PowerPoint presentation, the slides are creative, organized with good design, layout and neatness.</p> <p>If Video Presentation, the video has good production value, interesting, entertaining, informative, and demonstrates creative elements.</p>	<p>Tri-Fold Poster is good: colorful and attractive with great design, layout, and neatness.</p> <p>If PowerPoint presentation, the slides are creative, organized with good design, layout and neatness.</p> <p>If Video Presentation, the video has good production value, interesting, entertaining, informative, and demonstrates creative elements</p>	<p>Acceptable presentation.</p> <p>Good design and layout.</p> <p>Presentation or Video could use more creativity, but is organized.</p> <p>Time and effort can be seen in the final product.</p> <p>Product demonstrates significant time and effort but most likely less than suggested work time.</p>	<p>Presentation is a bit messy.</p> <p>Attention not paid to details.</p> <p>Insufficient number of Powerpoint slides or Video is acceptable but low production value. More time and effort needed to be given to the project overall.</p>	<p>Presentation is distractingly messy, disorganized or poorly designed.</p> <p>PowerPoint presentation/video is incomplete or haphazardly put together. Work only demonstrates a few hours of group effort.</p>

Creativity (25 points total)

25 pts	20 pts	15 pts	10 pts	5 pts
<p>Overall presentation, video/Powerpoint, and content shows thorough planning, creative elements, and good execution for all parts of project. There are elements of creativity that sets this project apart from others.</p> <p>There is evidence that more than the suggested work time were given to project.</p>	<p>Overall presentation, video/Powerpoint, and content shows good planning, creative elements, and good execution for most parts of project. There are elements of creativity that is evident from project and the group put in the suggested work time needed for project.</p>	<p>Overall presentation, video/Powerpoint, and content shows adequate planning, a few creative elements, and acceptable execution for most some of project. There are a few elements of creativity that is evident from project but the group could have put in more time and effort into project.</p>	<p>A lack of effort and time needed for project leads to minimal creativity in the end product.</p> <p>Some time and effort is demonstrated in the final product but significantly less than the suggested amount of time per student per group.</p>	<p>Little to no effort given to project.</p> <p>Incomplete or hurriedly put together. Minimal points awarded for minimal effort.</p>

AB/BC Group Project Details

Pick a significant topic you have learned this year in AP Calculus, or an additional Calculus topic which you are interested, which you can develop a teaching activity around. You will have approx. 10 - 12 minutes to present to the class. This activity must ALL of the below :

- A poster/trifold on your topic.
- Some sort of PowerPoint or similar digital presentation (OR a video) to reinforce your presentation.
- An original guided practice worksheet.
- A worked solution answer key for your original practice homework worksheet.
- An original practice homework worksheet with at least 10 problems.
- A worked solution answer key for your original practice homework worksheet.
- At least one practice activity/game for the class to participate in.
- Some sort of food tied to your topic/activity to share with the class. (Homemade is preferable over store bought unless store bought has a particular advantage mathematically.)

Content (50 points): _____

Presentation (25 points): _____

Creativity (25 points): _____

PROJECT GRADE: _____

There are a maximum of 3 people per group, though you may choose to work alone. People who work alone are still expected to meet all criteria for the project.

This project is expected to represent a minimum of 6 hours of class time and 8 hours of homework time per group member and will be evaluated based upon that number of work hours. [Therefore larger groups will be expected to achieve a higher standard.]

You may not work with students from another period because you need to collaborate in class with your group and present with them.

Seniors you are not required to participate in this project, however if you chose to once you sign below this is a binding commitment and you will earn a zero for the project if you subsequently choose to back out on your group members for whatever reason.

Member name

Member signature.

_____	_____
_____	_____
_____	_____

Available Group Topics:

- 1) PVA or Particle Motion
- 2) Area/Volume
- 3) Related Rates
- 4) Integrals
- 5) Riemann Sums
- 6) Optimization
- 7) Limits/Continuity
- 8) Derivatives
- 9) Curve Sketching
- 10) Miscellaneous Theorems (MVT/EVT/IVT/Rolle's/Squeeze Theorem)
- 11) BC: Sequence and Series
- 12) BC: Polar Graphs and Polar Area
- 13) BC: Parametric Equations