

Quadratic Functions Project

Quadratic Formula Song

Reason for the project:

We have been discussing Quadratic expressions and functions in great detail throughout the semester. As we are getting closer to the end of our Quadratic Expressions/Functions units it is important to have the topics that we have discussed memorized in order to recall them in a timely manner when taking an assessment in need of them.

The Project:

During class we will introduce the Quadratic Formula for the first time in Unit 2C. I will show a few YouTube videos that show students creating a song about the Quadratic formula using one of their favorite songs as the rhythm to construct their words around. In this project I want you to create the video about the Quadratic Formula. This is not something that I am going to post on YouTube, but this is something that I can use as a resource for years to come (Who knows maybe years from now I will be teaching your children and they can watch you singing and dancing as you get excited about a math equation).

For the project you may work individually if you would like, or you may work with any amount of other students in your own class or amongst any of the other students that are in the regular Math II class this semester. Whoever is in the group must be in the video and must play an active role in the performance that is recorded. Each student must have no less than one solo performance in the video as well to ensure that they are not just lip singing and allowing the other group members to do all the work for them.

Be creative and make some visuals showing the formula or parts of the formula like some of the videos that we watched. For a little extra credit I'm going to throw out the challenge to involve your own family members or other teachers from around the district. The Quadratic Formula Song is fun and can be catchy so it would just be rude to keep the fun all to ourselves right?

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Quadratic Formula Song GRADING RUBRIC

Graded On	1 Point	2 Points	3 Points	4 Points	Points Earned
Originality	The work is a minimal collection or rehash of other people's ideas, products, images and inventions. There is no evidence of new thought.	The work is an extensive collection of other people's ideas, products, images and inventions. There is little evidence of new thought or inventiveness.	The project shows some evidence of originality and inventiveness. While based on an extensive collection of other people's ideas, products, images and inventions, the work extends beyond that collection to offer new insights.	The project shows significant evidence of originality and inventiveness. The majority of the content and many of the ideas are fresh, original, and inventive	
Subject Knowledge	Subject knowledge is not evident. Information is confusing, incorrect, or flawed.	Some subject knowledge is evident. Some information is confusing, incorrect, or flawed.	Subject knowledge is evident in much of the project. Most information is clear, appropriate, and correct.	Subject knowledge is evident throughout the project. All information is clear, appropriate, and correct.	
Teamwork	Only 25% of the members in the group actively participated in the creation of the video.	Only 50% of the members in the group actively participated in the creation of the video.	Only 75% of the members in the group actively participated in the creation of the video.	100% of the members in the group actively participated in the creation of the video.	
Length of Video	Active engagement in the video only lasted for 30 seconds.	Active engagement in the video only lasted for 1 minute.	Active engagement in the video only lasted for 2 minutes.	Active engagement in the video lasted for 3 or more minutes.	
Video Clarity	Only 25% of the video is presented with enough clarity to understand what the group is presenting.	Approximately 50% of the video is presented with enough clarity to understand what the group is presenting.	Approximately 75% of the video is presented with enough clarity to understand what the group is presenting.	The entire video is very clear and everything could be understood.	
Extra Credit	Video Contains 2 Additional Adults	Video Contains 4 Additional Adults	Video Contains 6 Additional Adults	Video Contains 8 Additional Adults	