

Good Luck to _____ Date _____ Pd _____

2nd Quarter Bonus Project

OBJECTIVE: This goal of this project is to build confidence on past concepts to help you prepare for your exam while earning extra points towards any test or quiz from the second quarter in Algebra 2. You are not entitled to earning points simply because you attempted the project. You will be assessed on creativity, quality, accuracy of the concepts, and the listed rubric items in detail below. This sheet is due when you turn in your project.

DUE DATE: You will have until _____ to turn in a quality completed project.

INSTRUCTIONS: You will be randomly assigned a concept that will benefit your knowledge of the Algebra 2 curriculum. Your job is to research your algebra two concept and create a video or other form of electronic presentation to summarize and reteach your algebra 2 concept. Further details and points are listed below.

Detailed Directions:

PART 1: Your algebra two concept will be provided from the list below. You do not get to choose which concept. You need to ask me which one you should do and then write it on the line below.

- Domain & Range in interval notation.
- Translations for lines, quadratics, absolute value functions, & polynomials
- Reflections for lines, quadratics, absolute value functions, & polynomials
- Regression for linear, quadratic, cubic, quartic functions
- Vertical Stretch/Compression for lines, quadratics, absolute value functions, & polynomials
- Horizontal Stretch/Compression for lines, quadratics, absolute value functions, & polynomials
- Adding, Subtracting, & Multiplication Matrices
- Solving Quadratics (all 5 methods)

My Algebra 2 Concept is: _____

PART 2: In order to teach my algebraic concept to others, I need to fully understand it. So, this part of the project includes suggested research that will help you learn your concept using three different resources. You must fill in all 5 spots below to earn credit for this part of the project. Complete the Google Form prior to moving on to Part 3. <https://forms.gle/qgHr32s4S8cuFoiw5>

My research to understand my algebra concept, from above, better included:

Watching these three videos on YouTube when I typed in my concept to the search bar:

- 1) _____
- 2) _____
- 3) _____

Found the concept in my book on page _____ in chapter _____ section _____.

Skimming this website:

PART 3: Now is the time when you decide how your strengths can be used best to present what you learned to help others understand your concept, **electronically**. You can use Google Slides with video inserts to present or upload a video to YouTube you created. *To earn full credit your voice must be heard on the presentation, but your face does not need to be included.* You need to be seen actually writing and explaining, not just explaining something pre-written. Other options for video uploads include: screencastify and awesomescreenshot.

Your presentation should include (10 items):

- The name of the algebra two concept
- Teaching the concept
- Providing demonstrated examples (at least 2)
- Providing opportunities to practice and check their knowledge (at least 2)
- Common mistakes that could happen (at least 1)
- Summary of the main points
- Something you learned along the way that you did not know before
- Diagrams, graphs, or pictures

Please take into account you are being assessed on all the above requirements as well as (6 items):

- Organization
- Creativity
- Accuracy
- Neatness
- Grammar/Spelling
- Quality of your final product

RUBRIC

Part 1 (concept is written on the line): 1 pt

Part 2 (Google Form was completed): 1 pt

Part 3 (all 14 blanks are completed): 8 pts

TOTAL:

COMMENTS: