For this project, you will work with a group of (3 or 4 MAXIMUM) to create a lesson to present to the class, which summarizes and reviews a method to solving quadratic equations.

This project has 3 components for a total of **80 points, which will be counted as a test grade** (see rubric for grading):

1. **Lesson (40 points)** – You must teach a lesson to the class that reviews the information in your chapter or sections. The lesson should include and cover:

* Title of your assigned method
* Vocabulary, definitions, and any formulas used
* Rules or steps – list the steps to teach someone how to solve the quadratic equation using your method
* At least **four** example problems with all work and correct solutions.

You may use PowerPoint, videos, a poster, a song or anything else that you think would help your presentation. **EVERY** person in your group **MUST** present something and speak at least **ONCE** during your lesson. A separate classwork grade will be given on project assignments (who does what part of the project), due to the teacher by the end of next block.

2. **Handout (20 points)** - You must create a handout for your classmates for your presentation. The handout is intended to be something that your classmates can use to study from. Your review worksheet must have at least 5 problems **DIFFERENT** than your lesson. You must also submit an **answer key** will full solutions with your handout. **THIS IS TO BE HANDED IN WHEN YOU PRESENT.**

3. **Class Surveys/Participation (20 points)** – Your classmates will fill out a survey on the effectiveness of your lesson, and answer one review problem (made by the teacher), at the end of your lesson. These will be reviewed by the teacher and be counted towards your grade. Also, if you are disruptive, ask off topic/inappropriate questions, are disrespectful, or distracting in any way during a presentation, points will be taken off **your** project grade with teacher discretion.

You will have SOME class time to complete this project, but may have to work outside of class as well. *It is your responsibility to use class time effectively and ask questions before this project is due!*

**Project due date (poster, handout, and answer key):**

**Monday, October 20th**

**\*presentations will be conducted Monday 10/20 – Thursday 10/23 (10 points deducted for each day late and/or each day unprepared to present)**

**Grading Rubric – Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Lesson (40 points)

|  |  |
| --- | --- |
| Title of method, any vocabulary and definitions explained and presented. | /5 |
| Steps on how to solve problems are accurately explained/presented. | /5 |
| Four example problems included, and a review/correct explanation of solutions are presented. | /10 |
| Group was well organized and prepared. Each group member participated in a professional, effective manner.  | /10 |
| Group members were able to answer classmates’ questions correctly and thoroughly. | /5 |
| Lesson was effective, thorough and engaging. | /5 |

 **TOTAL: \_\_\_\_\_\_\_\_\_\_\_/40**

Handout (20 points)

|  |  |
| --- | --- |
| Method of Solving Quadratics listed | /5 |
| Examples and information provides an accurate summary of skills/topics in the chapter. | /5 |
| Answer key has correct solutions/explanations with all steps. | /5 |
| Handout is neat and organized. | /5 |

 **TOTAL: \_\_\_\_\_\_\_\_\_\_\_/20**

Class Surveys/Participation (20 points)

|  |  |
| --- | --- |
| A majority (80% or more) gave scores of 4 or 5 on lesson survey. (Points will decrease based on what percentage of the class did not give scores of 4 or 5). | /10 |
| A majority (80% or more) answered final review problem correctly. (Points will decrease based on what percentage of the class did not answer correctly). | /10 |
| DEDUCTIONS – based on student’s personal behavior and participation in other group’s presentations. (Teacher discretion) |  |

 **TOTAL: \_\_\_\_\_\_\_\_\_\_\_/20**

**TOTAL PROJECT GRADE: \_\_\_\_\_\_\_\_\_\_\_\_/80**