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## Quadratic Equations Project Teaching Tips:

One of the best ways to *really* learn something is to teach it to someone else. This project attempts to help students do just that. This could be used multiple ways: as a review before the test, as extra credit, or as a way to take notes throughout the unit. Here are some tips to make sure it's helpful and successful!

- Make sure students understand the difference between explaining **with words** how to solve using a particular method, and simply **showing** with an example. This project requires both.
- Let students get creative with it! I've had students do a great job with this project who normally struggle to show what they know on a typical test.
- Encourage students to "try it out" on a parent or sibling. What better way to determine if their explanations are clear than to have someone try to actually *use* their "how to" manual?
- I have included a rubric (out of 100 points) but feel free to create your own if this one doesn't meet your needs. I would encourage you to use some sort of rubric, however, to make sure your expectations are clear and to make grading easier!
- Lastly, I always ask my students to attach the rubric to their project when they turn it in, so that 1. I know they had the directions and should have known what to do, and 2. I don't have to print more in order to grade them. Therefore, I would print the rubric on the back of the directions. Then they have everything on 1 handy page!

DUE: \_\_\_\_\_

Name: \_\_\_\_\_

## Quadratic Equations "How To" Project

**ROLE:** A Mathematician

**AUDIENCE:** Algebra students

**FORMAT:** A "how to" booklet

**TOPIC:** Solving Quadratic Equations

*Your "how to" instruction manual should be precise, clear and easy to follow. There should be good **examples**, and should be "readable" (i.e. someone who has never solved a quadratic equation should be able to understand).*

*Each method of solving should be explained **IN WORDS**, with an example to illustrate the steps. Use your **own words**, and be **creative!** (Note: I **WILL** know if you copied directions out of a book ☺)*

*Your booklet should meet the requirements **stated in the rubric**, or full credit will not be given.*

**PLEASE ATTACH THE RUBRIC TO YOUR BOOKLET WHEN IT IS COMPLETE SO I CAN GRADE IT.**

*This assignment is DUE: \_\_\_\_\_*

DUE: \_\_\_\_\_

Name: \_\_\_\_\_

## Quadratic Equations RAFT Project

### GRADING RUBRIC:

	Points Possible	Actual Points
Cover Page	5	
Table of Contents (4 ways to solve)	5	
<b>Directions</b> (steps) for all 4 methods are clear and make sense	40 (10 points per method)	
Clear <b>example</b> of all 4 methods is given	40 (10 points per example)	
All mathematics is correct	5	
Neat, typed	5	
<b>TOTAL</b>	<b>100</b>	