

Lab Template

Text: AMME

Volume: 1

Chapter: 6

Unit number: 6 **Title:** Opposites Attract

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Attach the Following Documents:

- 1. Lab Instructions**
- 2. Student Handout(s)**
- 3. Rubric and/or Assessment Tool**

Short Description (Be sure to include where in your unit this lab takes place):

This lab will occur after the initial discussion of what opposites are in terms of numbers and x 's. The lab uses the balance method to solve single variable equations. Students will be kinetically involved in the creation of zeros (tossing out of the ring) of either 1's or x 's. Students will be given two cards, a 1 and an X. The teacher will post an equation on the board and students will come up and assemble themselves in the form of the equation. Then during the "Main Event" other students can come up and create zero's in the equation to ultimately find the value for X. Student's "toss" each other out when they are opposites (-1 and 1) or (x and $-x$).

Unit 16 Lab – Solving Equations Royal Rumble

LAB PLAN

TEACHER: (*Teacher Prep/Lab Plan*)

⤴ **Lab Objective**

Students will work collaboratively in groups of 4, but each student will have their own 1's and x 's cards. Students will use the balancing method to understand how to manipulate variables and numbers in equations to solve for unknown variable. Students will see that portions of equations can be eliminated by introducing opposites to both sides of the equation.

⤴ **Statement of prerequisite skills needed** (*Vocabulary, Measurement Techniques, Formulas, etc.*)

Students understand that a variable represents an unknown number. Student's will understand the concept of opposites and that when opposites are paired they create zeros. Students will know how to combine like terms.

⤴ **Vocabulary**

Variable	opposite	create zeros
Balancing equations	royal rumble	

⤴ **State Standards addressed:** (*Highlight "Green" Standards, you may use your District's Power Standards if applicable*)

