

## Lesson Plan

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Course Title: Special Ed/8th Grade Math

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### Content Standards Covered by Activity:

8.2.4.7 Represent relationships in various contexts using systems of linear equations. Solve systems of linear equations in two variables symbolically, graphically and numerically.

### Essential or Driving Question(s):

Can we solve a system of equations using graphing?

### Launch (This is the transition into the lesson meant to engage and hook students interest):

They will grab a piece of graph paper as they enter the room. I will start by having the students do a warm up on the material from the previous lesson. This would be a problem using cost and revenue and a two way table. They will have to solve for a break even point. After giving them approximately 7 minutes to work on these two problems, I will go over the answers.

### Explore (This is the active learning portion of the lesson – what will students be doing to **actively** engage in the lesson?):

I will introduce the lesson and explain that we are going to be solving for  $x$  and  $y$  using graphs. We will go over vocabulary from the textbook, briefly. Then, we will do 2-3 examples on the board. There will be two equations and a graph and I will tell them to graph both lines, reminding them which number is the  $y$ -intercept and which number is the slope and reminding them how to graph the lines. I will tell them to be sure to graph multiple points so that we can find the intersection. Next, I will show them that the intersection of the two lines is the solution and should be recorded as a point  $(x,y)$ . I will have them try the next example on their own and check their work. This is a way for them to practice and for me to see who knows what, very quickly.

### Reflect (This is the transitioning out of and follow-up to the lesson/activity):

*How will you determine what students have learned?*

They will practice what they are learning on Big Ideas on their chromebooks. There will be two assignments. One is a preview for the chapter and the other is an assignment on the new material. I will be sure to let them know that if they have any questions, ASK! Their scores on these assignments will show me where each student is at.

### Materials/Technology needed for the activity:

- Smartboard

- Graph Paper
- Chromebook

**Modifications Needed:**

For students who get distracted easily, a different work environment could be used to limit distractions. For those who can't use their chromebook, a worksheet with the same problems could be created.