Lesson Context

BIG PICTURE of this UNIT:	• What are the most important components of "Problem Solving"? • From last year's course, what are the major topics from linear relations that we have worked with, remember, and are fluent with? • How do we apply the concept of linear relations to (i) geometry & (ii) data analysis?

Lesson Objectives

1. Determine linear equations given data from the problem
2. Solve linear systems from the equations written in the problem

So the time has finally come for Aliens to Invade Earth!!! Bummer! They have decided to attack CAC and are currently bombing the campus. Luckily we have defenses… we just don't know where to put them. Here is your mission!!!

Your MISSION (Should you have no choice in accepting it !!!!!)

1. You have 7-8 Cannon Turrets to place in the school (which will be represented by x axis, so your "cannons" will be placed on the x-axis in x-intercept positions)
2. Each cannon can be only used ONCE and it fires its missiles in linear paths
3. The ALIENS locations are given by specific co-ordinates (see attached grid)
4. To destroy an ALIEN, it must be hit at least TWICE

5. So, where do you place your cannon turrets to DEFEND EARTH???

What you must hand in at the end of your mission ….. i.e at the end of class ….

1. Supporting evidence/working of HOW you came up with the cannon turret locations (HINT: think equations & systems and intersections etc ….)
2. Your specific locations and your GUARENTEE that these locations WILL defend earth from these ALIEN INVADERS (see point #1 above)

ALIENS ATTACK!!!
Defend CAC!!!

So the time has finally come for Aliens to Invade Earth!!! Bummer! They have decided to attack CAC and are currently bombing the campus. Luckily we have defenses… we just don't know where to put them. Here is your mission!!!

- You have 7-8 Cannon Turrets to place in the school (on x axis).
- Sadly each Cannon can only fire once. And you need to input the equation of Lazer Beam (equation of the line☺)
- Lastly you need to hit each bomb at least twice to destroy it! You have to do it all at once… SNEAK ATTACK!

❖ ***What will be the locations of your Cannon Turrets?***
❖ ***What will be the Equations for your Lazer Beams?***

SAVE CAC… BEFORE IT IS TOO LATE!!!

(-1 , 11)

(-4, 7)

(3,5)

(0,4.5)

(3,3)

(-4, 2.5)

(5,2)

(3,1)