

Potential Questions:

- 1) What skills did you learn through this project?
- 2) How will this help you in the “real world”?
- 3) Would skills like this be helpful in the Engineering realm?
- 4) Did you know anything about linear equations before this project?
- 5) Was this project hard or easy for you?
- 6) Did you like this project?
- 7) Why did you choose to make a tree for your landscape?

Answers:

- 1) I learned how to graph linear lines as well as write linear equations to match.
- 2) This will help me in the real world because when I am making anything this is super useful to me to find lengths and angles.
- 3) Somewhat, I definitely think that there would be a little harder equations in the engineering world.
- 4) I learned a little bit about graphing and linear lines in algebra 1 as well as a little in geometry, however with this project, we expanded my knowledge, and went deeper into the equations.
- 5) This project was pretty easy because of my previous knowledge on graphing.
- 6) Yes, I liked the project because I could visualize the equations in graphical form.

## Linear Landscape Mini-Project

Inequality =  $y \leq 3$

Slope Intercept =  $y = x - 10$

Vertical Line =  $x = 20$

Horizontal Line =  $y = 20$

Point-Slope =  $y - 20 = 2(x - 24)$

Standard Form =  $8x - 6y = 48$

Intercept Form =  $\frac{x}{44} + \frac{y}{26} = 1$

Parabola =  $y = -2x^2 + 20$

## Reflection:

This is the linear landscapes project. In this project, we were to graph and write equations for six different types of linear equations. These included; point-slope, vertical, horizontal, standard, intercept, and slope intercept. All of which we had learned in the previous weeks. We were also to include one inequality as well. After graphing these lines and writing each equation to match, we then created a landscape picture that used our graphed lines. After a rough picture was made, we then colored the pictures and made sure that each line had all the requirements, such as having two points graphed. In this project we learned how to graph linear lines and write linear equations. If I did this project over again, I would have included some more non-linear lines. I really liked the look of the waterfall in the picture, which was a parabola, and I think if I had more of those, the picture would have looked more dynamic.