Week of April 6-10, 2020
Ms. Myers

Hello everyone. Choose 2 of the following activities for the class you are enrolled in to complete for this week. All assignments may be turned in via google classroom. Take a picture or scan it in and turn it into the corresponding assignment. Or you may turn in paper copies to the office and they will get them to me. Both choices are due by Monday, April 13 at noon. Be sure to write whatever choice you are doing at the top of your page.

I will be at my computer for questions on Tuesday 10a-12p, Wednesday 3p-5p & Thursday 12p-2p.

Class	Choice 1	Choice 2	Choice 3	Choice 4	Choice 5
Algebra 2	Water Park Project Show all work!	Page 943 Lesson 1.3 #1-22 Show all work!	Page 26 Lesson 1.3 #10-21 even and 32-52 even Show all work!	Page 49 #12-40even Show all work!	Research a famous mathematician. Write a 1 page paper about him/her. Include history & why he/she is important to the math world.
Algebra 3/Trig	Complete the assignment that was assigned on Khan Academy.	Page 982 Lesson 13.1 #1-18 Show all work!	Page 966 Lesson 8.4 #1-18 Show all work!	Page 966 Lesson 8.3 #1-18 Show all work!	Research a famous mathematician. Write a 1 page paper about him/her. Include history & why he/she is important to the math world.
Geometry	Geometry Construction Project 1	Advanced order of Operations Wkst Show all work!	Page 818 Lessons 1.1 & 1.2 Show all work!	Page 75 #1-19 Show all work!	Research a famous mathematician. Write a 1 page paper about him/her. Include history & why he/she is important to the math world.
Tech Math	Solving Equations Wkst Show all work!	Titanic Wksts Show All Work!	Mean, Median, Mode, Range Show all work!	Duct Tape/Pencil Pouch Project	Research a famous mathematician. Write a 1 page paper about him/her. Include history & why he/she is important to the math world.

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Water Park Project

Name_____

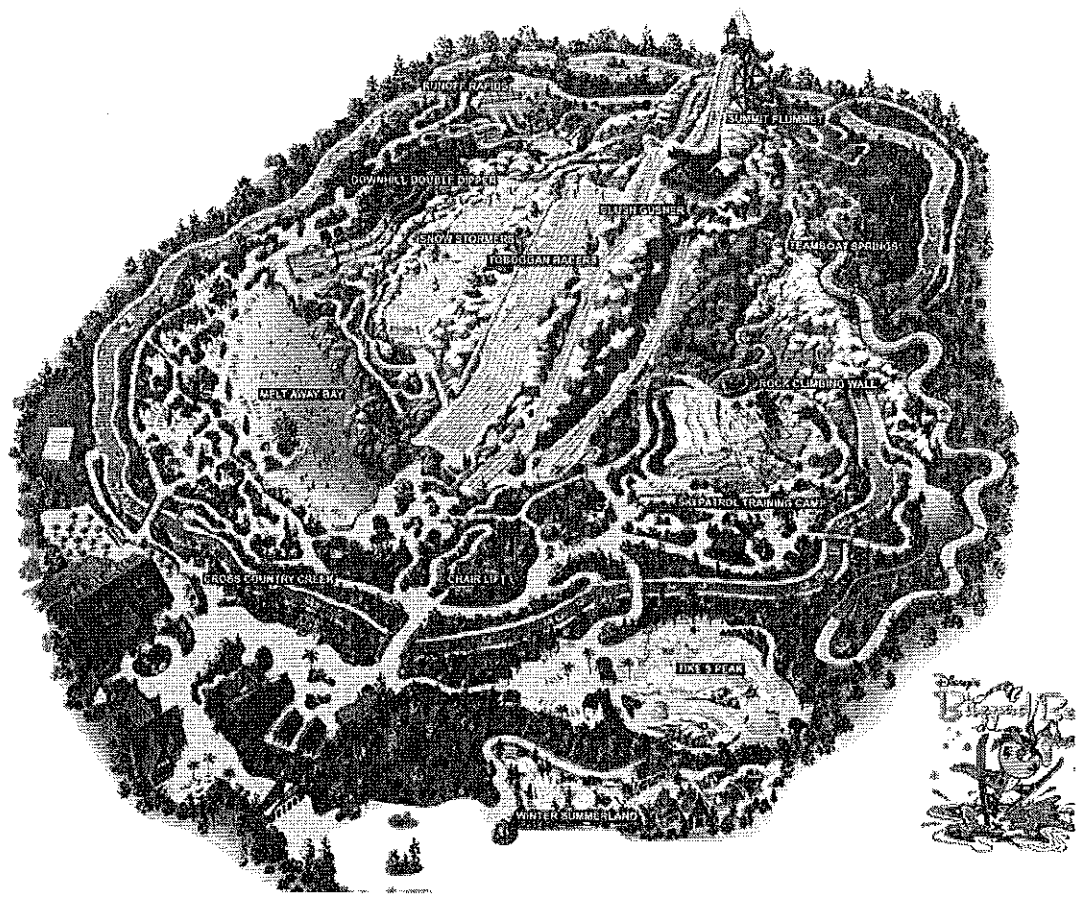
TASK 1: Designing your Park

You have recently been hired to create a blueprint for a water park. Your boss, Gelatinous Harrington, is a very controlling person. She wants you to include specific attractions and necessities in your design. Be prepared to answer her questions before you have had enough time to adequately explain what you are doing. First off, she wants it to be done on a large sheet of graph paper so that she can apply her mathematical knowledge to make the park the best it can be. She has issues and will yell at you if you do not do this properly. Before starting your blueprint, identify the center of your paper, and use a ruler to draw in the x and y axes. Then, you need to plot the approximate entrance points (where the line starts!) of each attraction on the graph paper and draw in the remaining part of the attraction around it in a creative fashion. Try to spread them out as much as possible. Use a pencil to draw the items and then go back and color them in with colored pencils.

Items to be included on the design are listed below:

-Help center
-Large whirlpool
-3 different water slides
(use your imagination)

-Toddler area
-Lazy river
-Concessions
-Gift shop
-Restrooms
-Security desk



TASK 2: Naming Your Coordinates

After planning out the layout and design of each water park attraction, you must identify it's location by using ordered pairs. Use your "entrance points" as the attractions identifiable location, and fill in the chart below accordingly!

Location:	Ordered Pairs:
Help Center	(_____ , _____)
Large Whirlpool	(_____ , _____)
Water Slide #1	(_____ , _____)
Water Slide #2	(_____ , _____)
Water Slide #3	(_____ , _____)
Toddler Area	(_____ , _____)
Lazy River	(_____ , _____)
Concessions	(_____ , _____)
Gift Shop	(_____ , _____)
Restrooms	(_____ , _____)
Security Desk	(_____ , _____)

TASK 3: Calculating the Slope

After identifying each attraction's location with ordered pairs, you are now ready to calculate the slope between attractions using the slope formula,

$$\frac{Y_2 - Y_1}{X_2 - X_1}$$

Using a RED pencil and a ruler, MARK the direct path to/from the locations mentioned below. Calculate the slope of the line that is formed, and show your work in the space provided.

Help Center to Water Slide #1	Toddler Area to Concessions
Gift Shop to Restrooms	Security Desk to Water Slide #2
Lazy River to Large Whirlpool	Help Center to Gift Shop
Restrooms to Water Slide #3	Concessions to Lazy River
Water Slide #1 to Water Slide #2	Water Slide #2 to Water Slide #3

Task 4: Writing Linear Equations.

In task 3 you identified direct paths between various park attractions by drawing them in with red lines. Now, you will show off your skills by writing equations for each of those red lines.

Help Center to Water Slide #1 Y = _____ X + _____	Toddler Area to Concessions Y = _____ X + _____
Gift Shop to Restrooms Y = _____ X + _____	Security Desk to Water Slide #2 Y = _____ X + _____
Lazy River to Large Whirlpool Y = _____ X + _____	Help Center to Gift Shop Y = _____ X + _____
Restrooms to Water Slide #3 Y = _____ X + _____	Concessions to Lazy River Y = _____ X + _____
Water Slide #1 to Water Slide #2 Y = _____ X +	Water Slide #2 to Water Slide #3 Y = _____ X + _____