Dear Parents and Students,

This is our End of Year, 8-Week Lesson Plans. I sent them Friday, but I understand you did not receive them. If this attempt fails, Mrs. Brooks will use her electronics to get them to you. I hope you are all safe, sound and taking all the safety precautions necessary. I am going to try to stay in touch with electronically in whatever manner that is. It might be by e-mail, skype or some other method of contact. I’m working on this with people who know what they are doing. You know me and my issues with electronics!

I tried to organize the lessons so you could get some review. At the same time there are mixed lessons that provide new topics. I spent a long time trying to find good websites that had good instruction with their problems, a good solution systems, and an answer keys so you could see your errors. There were a number of familiar site to choose from: Khan Academy, IXL., etc. You will see that I chose **kuta software.com** for the foundation of the lesson plans. You will also see notes referring to **Eric Buffington** who does an excellent job with explaining math concepts, but does not give many practice problems. You are also familiar with **Math Antics** from watching them in class. They also do a great job with explanations but, again, they do not give a lot of practice problems. Another site I found that has excellent explanations is **Don’t Memorise**, yes, there is an **s** at the end. They too, have short videos with excellent instruction.

Kuta software’s website will let you download practice problems for the particular math level you are on. Go to **Free** Worksheets. In addition, they will give you the answers on another page so you can check your answers. This is where your review and new learning will take place. **1.** Try working the problems on the worksheet **without looking at the answers**. 2. Check your answer. If it’s correct, great! Next problem. If it is not correct, **watch the video as the instructor solves the problem(**s), then correct as necessary. **Understanding** the work is the goal. **3**. Keep your papers organized in your math notebook. Nake a new section labeled **4th Quarter**. Organize by the date on the Lesson plan, for example **Week 1**, **Week** 2 ... **4. The Project.**

Completing these assignments should give you a good handle and foundation for next year’s work; **however**, if you finish and/or would like to explore new topics, **please feel free to go to lessons from other topics.** Keep these under a tab labeled **extensions.**

**STAY SAFE! HAVE A GREAT SUMMER**

 I’LL TRY TO SET UP ELECTRONIC COMMUNICATIONAS SOON AS I CAN.

**MATH 7 8 WEEK END of YEAR LESSON PLANS** **WEEK of MARCH 31**  **Mr. Hayo**

KSW = kutasoftware.com. You can get free worksheets with the answers, from the main page.

You tube kuta software + the topic will give you the videos and explain how to solve the problems.

 There are some of the sites I liked when I was making these plans. They are each different in their own way: Eric Buffington, Sharon serrano, don’t memorise. Feel free to look up sites that you like for additional assistance.

**Week 1** Kuta Software Infinite Algebra 1 One –Step Equations ( ) # 1-14 [MaeMap] Mar 31

T. Kuta Software Infinite Algebra 1 Two-Step Equations (12:23) # 15-30 [MaeMap]

W. ***Sharon Serano*** Triangle Inequality Theorem (4:35) take notes [Sharon serrano] Kuta Software Triangle Inequality Theorem Part1 (7:46) #1-12 [MaeMap[]

Th. KSW Triangle Inequality Theorem Part 2 (6:49) #13-18 [MaeMap[]

F. Project: Written assignment. Look up the dimensions of a standard railroad boxcar. Calculate the volume in square units. The length of how many boxcars will equal one mile? **Keep your information together. We will be adding to it as a project. Jot down notes about issues you when choosing your numbers.** Next question for discussion: How can you determine how many pieces of stacked copy paper are equal to 12 inches? Jot down your thoughts on how you derived your answer. Did you ask anyone for help? **REMEMBER**, save this information for later consideration. Your final papers should be neatly written, organized, presented in a nice manner.

**Week 2** KSW. One-step equations with decimals. April 6

T KSW. One-step equations with fractions

W KSW. One-step equations word problems

Th. KSW. Order of operations

F Project: Data and material collection. Find some cardboard and cut it into 6 squares 12” x 12”. Tape the sides together to make a cube with a side length of 12.” What is the volume of your box in cubic inches? What is the volume in cubic feet?

**Week 3** Go to: you tube *Sharon serrano triangle inequality theorem* (4:35)*.* Watch her video and take April 13 notes if you’d like.Also, go to *don’t memorize triangle inequality theorem* (2:40)and watch their video.

 KSW. Triangle Inequality Theorem Part 1 (7:45). Work problems.

T KSW. Pre-algebra Greatest Common Factor (29:02) Solve problems.

W KSW. Pre-algebra Greatest Common Factor (25:51) Do your best.

Th. KSW. Pre-algebra Least Common Multiple. (38:33) Work problems.

F KSW. Algebra 1 Writing in scientific notation Part 1 (9:17)

**Week 4** KSW. Algebra 1 Writing in scientific notation Part (5:54) Solve problems. **Also**, look up your notes April 20 and rules for multiplying and dividing scientific notation.

T Project. A $1 bill is **about**, for our project, 2 1/2 inches wide by 6 inches long. Now, with this information, how many $1 bills can fit on a piece of paper 12” by 12”? Now calculate your answer about how many $1 bills fit in a box 12” x 12”x12.” Write down your results on your paperwork. Glue or tape your box together. **You might want to reinforce the sides if they flop around. Get creative with your inner artist. Decorate your box if you’d** like. Ask parents, friends etc., how much money they think is in the box. Ask what they could purchase with the money the box. Write down your information. Where is all this going?

W KSW. Add and subtract integers

Th. KSW. Add and subtract mixed numbers

F KSW. Multiply and divide fractions and mixed numbers

**Week 5** KSW. Visualize data Part 1 and 2 April 27

T KSW. Visualize data Part 3 and 4

W KSW. Center and spread of data.

Th. KSW. Scatter Plots

F Project: Using the data you have, **estimate** the amount of money there is in your railroad boxcar. Write the number down. Write down their estimates for your report.

**Week 6** KSW. Using statistical models. May 4

T KSW. Percent change

W KSW. Markup, discount, tax (easy)

Th. KSW. Markup, discount, tax (hard)

F Project. Use the data about the number of $1 bills in a boxcar. Do the actual calculations with a calculator. Add this to your report. Again, ask your friends how many boxcars they think equal **$1 BILLION**. Write their numbers down. Do the same thing for **$1 TRILLION**. Lastly, ask them how many boxcars it takes to hold **$20 TRILLION.** Obviously, use your calculator and **scientific notation. Not done, yet.**

**Week 7** KSW. Find slope. Solve problems. May 11

T KSW. Angle relationships. Solve.

W KSW. Midpoint. Watch, take notes and follow video. You can this.

Th. KSW. Geometry Arcs and central angles.

F KSW. Geometry parallel lines and transversals. Solve

**Week 8** KSW. Geometry Arcs and Central angles May 18

T KSW. Geometry Inscribed angles.

W Finish report. Finish your calculations. How much money does a boxcar hold? How many boxcars make a **$ million**, a **$ billion**, a **$ TRILLION**, and finally **$20 TRILLION???? Think about this over the summer: HOW LONG WOULD A TRAIN OF BOXCARS HAVE TO BE TO HOLD $20 TRILLION?????**

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**Week 2** KSW. Geometry the Pythagorean Theorem and its converse. Multi-step P-Theorem Problems. April 6

T KSW. Geometry Special right triangles. These are fun!

W KSW. Geometry Multi-step right triangle problems

Th. KSW. Algebra Order of operations

F Project: Data and material collection. Find some cardboard and cut it into 6 squares 12” x 12”. Tape the sides together to make a cube with a side length of 12.” What is the volume of your box in cubic inches? What is the volume in cubic feet?

**Week 3** KSW. Geometry Triangle Inequality Theorem. Also: Inequalities in One Triangle April 13

T KSW. Visualize data Part 1 and 2. Also, Parts 3 and 4. It’s not necessary to finish all at one sitting

W KSW. Center and spread of data.

Th. KSW. Scatter Plots

F KSW. Exponential functions and graphs.

**Week 4** KSW. Algebra 1 Writing in scientific notation Part (5:54) Solve problems. **Also**, look up your notes April 20 and rules for multiplying and dividing scientific notation.

T Project. A $1 bill is **about** 2 1/2 inches wide by 6 inches long. Now, with this information, how many $1 bills can cover a piece of paper 12” by 12”? Calculate your answer about how many $1 bills fit in a box 12” x 12”x 2.” Write down your results on your paperwork. Glue or tape your box together. **You might want to reinforce the sides if they flop around. Get creative with your inner artist. Decorate your box, if you’d** like. Ask parents, friends etc., how much money they think is in the box. Ask what they could purchase with the money in the box. Write down your information. Where is all this going?

W KSW. Algebra 1 Writing in scientific notation Part 1 (9:17)

Th. KSW. Solving proportions. 2. Similar polygons.

F KSW. Geometry Parallel lines in the coordinate plane.

**Week 5** KSW. Solve Systems of EQ by elimination

April 27

T KSW. Solve systems of EG by substitution

W KSW. Solve system of EQ word problems

Th. KSW. Graphing systems of Inequalities.

F Project: From last week’s data, **estimate** the amount of money there is in your railroad boxcar. Write the number down. Write down their estimates for a comparison for your report.

**Week 6** KSW. Graphing quadratic functions May 4

T KSW. Graph quadratic equations. **Get help from other websites for this section. Especially on the graphing parts.** There are different methods with their interesting names: British Method, the AC Method, the Barry Method, four corners, Split the Middle. **\*\*FOR THE NEXT COUPLE OF DAYS (Wed.-Th.), SURF YOU TUBE etc.** Get comfortable with **FACTORING!**

W KSW. Factor practice **This is a BIG deal in math.**

Th. KSW. Factor Practice

F Project. Use the data about the number of $1 bills in a boxcar. Do the actual calculations with a calculator. Add this to your report. Again, ask your friends how many boxcars they think equal **$1 BILLION**. Write their numbers down. Do the same thing for **$1 TRILLION**. Lastly, ask them how many boxcars it takes to hold **$20 TRILLION.** Obviously, use your calculator and **scientific notation. Not done, yet.**

**Week 7** KSW. Now that you are comfortable, here it comes!!! **You NEED TO OWN COMPLETING THE SQUARE!!!**

T You tube etc. for factoring practice.

W **Go to you tube**. I really like Eric Buffington; Khan Academy, even KSW has some good stuff.

Th. Finish out this week with FACTORING QUADRATIC EQUATIONS!

F Add to all this: **using the QUADRATIC FORMULA.** It’s basically Plug ‘n Chug. But, **you need to own it.**

**Week 8** KSW. Geometry Arcs and Central angles May 18

T KSW. Geometry Inscribed angles.

W Finish report. Finish your calculations. How much money does a boxcar hold? How many boxcars hold a **$ million**, a **$ billion**, a **$ TRILLION**, and finally **$20 TRILLION???? Think about this over the summer: HOW LONG WOULD A TRAIN OF BOXCARS HAVE TO BE TO HOLD $20 TRILLION?????**

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