

June 2021

Dear Upcoming 8<sup>th</sup> Grade Students at Yorkville East Middle School:

Greetings! Next year will be an exciting and challenging year as you take 8<sup>th</sup> grade Math. The curriculum in math has been designed to prepare students to become critical thinkers capable of abstract reasoning.

**8th Grade Summer Math Project:**  
**Part I: Math-O-Graphy**

**Guidelines:**

Write an autobiography about your math experiences. It can be presented through any means - written in paragraphs, powerpoint, pamphlet, poster, prezi, etc. It should be written using complete sentences and correct grammar. There is no set length, but you should write until you have satisfied the requirements below and make sure your teacher will have a good understanding of who you are as a math learner. This project is due on the first day of school in September and will be a graded assignment.

Your writing should address ALL of the following:

- Give a summary of your experiences with math in elementary and middle school- good and bad.
- How was your experience in remote or hybrid math learning? What types of activities helped you learn math? What types of activities were really stressful to complete?
- If you could teach math to your class for one day, what would you teach your classmates? Why?
- What type of career would be a good fit for you? How do you think that career uses math?
- Are you thinking about college as a next step after high school? Explain what you will be doing in 6 years.

\*\*If you choose to create a Prezi, you can sign up for a free account with your ms177.org email address.

**Part II: Math Practice**

Some of the important skills you need to have in order to be ready for 8<sup>th</sup> grade include:

- Understanding unit rates and graphing equations for proportional relationships
- Adding, subtracting, multiplying and dividing fractions, decimals, and integers
- Writing and solving equations involving percentages
- Writing, evaluating, factoring, and simplifying algebraic expressions
- Solving and writing multi-step equations and inequalities
- Understanding area, perimeter, surface area and volume
- Mean, median, mode, range, and variability of statistics.

To help you strengthen and keep your math skills sharp over the summer, we would like you to practice the **8th grade** skills listed below. These will not be graded, but an opportunity for you to hone your skills over the summer.

The following IXL standards will be important to review over the summer:

Name: \_\_\_\_\_ IXL Log Class: **8th Grade**

Skill	Date	Score	Time Spent	How did it go? Difficulty Level?		
B1				Easy	Medium	Challenging
B3				Easy	Medium	Challenging
C1				Easy	Medium	Challenging
C3				Easy	Medium	Challenging
C6				Easy	Medium	Challenging
C7				Easy	Medium	Challenging
D2				Easy	Medium	Challenging
D3				Easy	Medium	Challenging
E4				Easy	Medium	Challenging
E7				Easy	Medium	Challenging
H2				Easy	Medium	Challenging
H3				Easy	Medium	Challenging
H10				Easy	Medium	Challenging
J6				Easy	Medium	Challenging
J7				Easy	Medium	Challenging
K2				Easy	Medium	Challenging
V2				Easy	Medium	Challenging
V3				Easy	Medium	Challenging
V4				Easy	Medium	Challenging
V5				Easy	Medium	Challenging

V13				Easy	Medium	Challenging
W1				Easy	Medium	Challenging
W2				Easy	Medium	Challenging
W8				Easy	Medium	Challenging

We hope you have a fun and safe summer. We look forward to seeing you in September! If you need an extra copy of the project, please visit [www.ms177.org](http://www.ms177.org).

Sincerely,

Kris Mueller and Keely Zaiantz