

Dear Incoming 8<sup>th</sup> Grade Students,

Welcome back to Middle School this fall.

This year's **summer reading novels** will be *I Am Malala* by Malala Yousafzal (2014-Young Readers Edition). In this memoir, Malala used beautiful and descriptive language to give readers an in-depth understanding of events in her young life.

Additionally, you will read a second book, *Six Million Paper Clips: The Making of a Children's Holocaust Memorial* by Peter W. Schroeder (2004).

For your **summer writing assignment**, you are to:

- Using *I Am Malala*, choose three (3) different passages from her memoir that you found particularly meaningful and describe why those particular words of hers stood out as being worthwhile or inspirational to you. A passage could be something she stated directly, something she described or even one simple but significant or meaningful sentence of hers. Hand write or type the passage with the page number and explain or interpret the meaning of it in 3-4 sentences.
- Using *Six Million Paper Clips*, identify three (3) facts from the book which surprised or astounded you. In other words, what parts of that middle school project, which commemorated innocent children who died during the Holocaust, inspired or amazed you. Identify the events and briefly explain why you thought they were important or amazing.

These two assignments can be hand written or typed and are to be brought to school on the second day of school. They will be counted as a grade in the first trimester.

Your **math practice work** for this summer is as follows:

Be sure to practice your math skills on IXL.com as they are outlined below. We ask that you **complete 30 minutes of online practice of math skills a week**, for 4 weeks this summer, starting on July 29th. Of course, you may practice more if you wish! Select skills in which you would benefit from the practice, not skills that you have already mastered. You are not required to complete every skill listed each week. Remember, we can see what and how much you do and will be celebrating your success! The online practice will equate to a Quiz Grade. Practice will help you on your MAPS testing, too! REMEMBER TO SIGN OUT AFTER EACH SESSION!

## Week 1: Operations with Integers

### B. Operations with integers

- 1 [Add integers using counters](#)
- 2 [Add integers using number lines](#)
- 3 [Integer addition rules](#)
- 4 [Add integers](#)
- 5 [Add three or more integers](#)
- 6 [Subtract integers using counters](#)
- 7 [Subtract integers using number lines](#)
- 8 [Integer subtraction rules](#)
- 9 [Subtract integers](#)
- 10 [Integer addition and subtraction rules](#)
- 11 [Add and subtract integers using counters](#)

- 12 Add and subtract integers
- 13 Complete addition and subtraction equations with integers
- 14 Add and subtract integers: word problems
- 15 Understand multiplying by a negative integer using a number line
- 16 Integer multiplication rules
- 17 Multiply integers
- 18 Integer division rules
- 19 Equal quotients of integers
- 20 Divide integers
- 21 Integer multiplication and division rules
- 22 Multiply and divide integers
- 23 Complete multiplication and division equations with integers
- 24 Add, subtract, multiply, and divide integers
- 25 Evaluate numerical expressions involving integers

## **Week 2: Operations with Fractions**

### **G. Operations with fractions**

- 1 Add and subtract fractions
- 2 Add and subtract fractions: word problems
- 3 Add and subtract mixed numbers
- 4 Add and subtract mixed numbers: word problems
- 5 Inequalities with addition and subtraction of fractions and mixed numbers
- 6 Estimate sums and differences of mixed numbers
- 7 Multiply two fractions using models
- 8 Multiply fractions
- 9 Multiply mixed numbers
- 10 Multiply fractions and mixed numbers: word problems
- 11 Multiplicative inverses
- 12 Divide fractions
- 13 Divide mixed numbers
- 14 Divide fractions and mixed numbers: word problems
- 15 Estimate products and quotients of fractions and mixed numbers
- 16 Add, subtract, multiply, and divide fractions and mixed numbers: word problems
- 17 Maps with fractional distances
- 18 Evaluate numerical expressions involving fractions

## **1. Week 3: Exponents & Square Roots**

### **J. Exponents**

- 1 Understanding exponents
- 2 Evaluate powers
- 3 Solve equations with variable exponents
- 4 Powers with negative bases
- 5 Powers with decimal and fractional bases
- 6 Powers of ten
- 7 Evaluate numerical expressions involving exponents
- 8 Scientific notation
- 9 Compare numbers written in scientific notation

## K. Square roots

- 1 Square roots of perfect squares
- 2 Estimate square roots

## Week 4: Coordinate Planes & Transformations

### M. Coordinate plane

- 1 Coordinate plane review
- 2 Quadrants and axes
- 3 Follow directions on a coordinate plane
- 4 Distance between two points

### EE. Transformations

- 1 Identify reflections, rotations, and translations
- 2 Translations: graph the image
- 3 Translations: find the coordinates
- 4 Reflections over the x- and y-axes: graph the image
- 5 Reflections over the x- and y-axes: find the coordinates
- 6 Reflections: graph the image
- 7 Reflections: find the coordinates
- 8 Rotations: graph the image
- 9 Rotations: find the coordinates

Enjoy your summer break and the middle school team looks forward to seeing you on August 28<sup>th</sup>, our first day back at school.