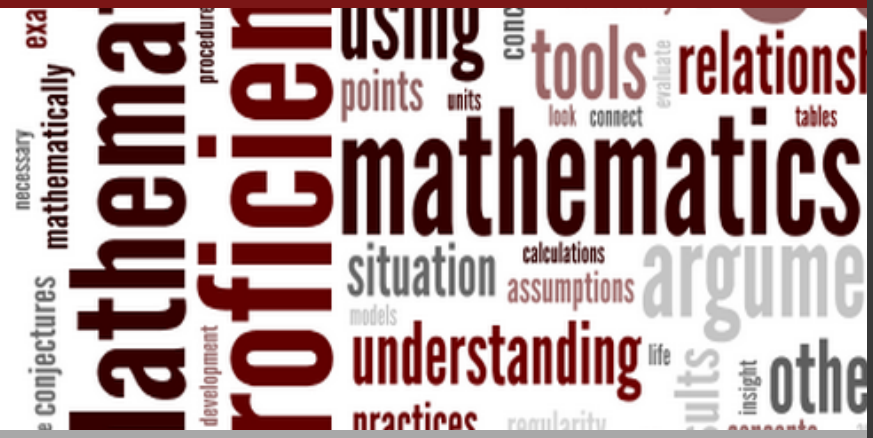
WEEK OF AUG 20
VOL. 1 ISSUE 1

M IS FOR MATHEMATICS

NEWSLETTER FOR PARENTS OF 5TH GRADE MATH STUDENTS AT WASHINGTON STEAM ACADEMY



IN THIS ISSUE

Beginning a new year

Food For Thought

Topic A: Parent Support

WELCOME TO WMS!

by John Davis

I hope your child finds a large amount of success through his math class this year. Throughout the school year, we will be sending out a digital newsletter in an effort to better communicate with parents about what is going on in the math classroom here at WMS. I hope you find it beneficial and it leads to higher success for your student.

Food for Thought

Did you know that struggle is good for your child to experience in learning? There are multiple pieces of research that support this thinking.

Check out this article from Jo Boaler talking about synapses firing in your brain when you get an answer wrong.

Mistakes Make the Brain Grow

KEY CONCEPT OVERVIEW

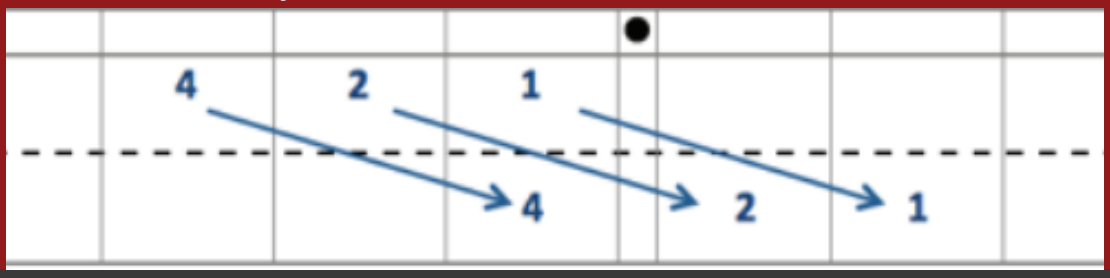
Lessons 1 through 4 focus on understanding place value and representing numbers from millions to thousandths on a place value chart.

Examples include:

- Multiply and divide by 10, 100, and 1,000 using the place value chart (see sample)
- Write numbers in exponential form. (e.g. 10,000 = 10^4)
- Use knowledge of measurements (e.g., 3m = 300cm) and exponential form to solve problems.

SAMPLE PROBLEM

Use the place value chart and arrows to show how the value of each digit in the number 421 changes when divided by 100. - 421 ÷ 100 = 4.21



HOW YOU CAN HELP AT HOME

- Practice drawing and labeling a place value chart (to the thousandths.)
- Practice metric conversions with your child in the kitchen. (1L=1000mL)
- Play the "Exponent" dice game with your child.
    1. Your child rolls a die to represent an exponent. The base number is 10.
    2. You ask your child to say the number in standard form.

For example, your child rolls a 4. You ask, "Say 10^4 in standard form." They say "10,000."

TERMS

Exponential Form: A numeric form involving exponents. (e.g, the exponential form of 1,000 is 10^3.

Place value: The value given digit based on its position in a number (e.g., the place value of the digit 2 in 235 is 200 (2 hundreds))

Standard Form: A way to write numbers using the digits 0-9 (e.g., the standard form of seventy-two and forty-eight thousandths is 72.048).

MODELS

Place Value Chart

1,000,000	100,000	10,000	1,000	100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths
							.			