2019

September-October

Math Newsletter

What's Happening This Fall:

Welcome to 7th grade math class. This month students will get to know one another, learn classroom routines and expectations. They will be introduced to the idea of a growth mindset where effort, stamina, and thinking can lead to academic success. We also shared Dr. Jo Boaler's work on developing mathematical mindsets. Students are encouraged to think differently by welcoming their mistakes and struggles in math. During these difficulties our brain is challenged promoting growth. Another words, through the struggles you learn! "If kids are not making mistakes — if they're not struggling — we're limiting their brain growth." *Jo Boaler*

Things to say to help your child develop a growth mindset:

-"I see you worked so hard on this."

-"It seems like it's time to try a new strategy."

-It looks like that was too easy, let's find some problems that challenge you so your brain can grow."

We are off to a great start!

Ratios & Proportional Relationships

7.RP.1 *Compute unit rates associated with fractions*

Example: If a person walks $\frac{1}{2}$ mile in each $\frac{1}{4}$ hour, compute the rate as a complex fraction:

$$\frac{\frac{1}{2} \text{ miles}}{\frac{1}{4} \text{ hours}}$$

Which is the same as 2 miles per hour (2 being the unit rate)

7.RP.2 *Recognize and represent proportional relationships between quantities.*

7.RP.2a *Decide if two quantities are proportional*

7.RP.2b *Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagram* Example:

$$\frac{y}{x} = k \quad or \quad y = kx$$

Constant of Proportionality-Graphs

7.RP3 *Use proportional relationships to solve multistep ratio and percent problems.*

Solve Percent Problems Using Bar Models