

Welcome:

Parents and Guardians of PS 83 Students

"Mathematics is not about numbers, equations, computations, or algorithms: it is about understanding"

---William Paul Thurston

The only way to learn mathematics is to do mathematics.

-- Paul Halmos

Parent Curriculum Night

- Welcome to the 7th grade presentation on curriculum.
- Tonight we will discuss:
 - Our units of study
 - How we assess our students
 - Tips on how to best help your child with math at home.

Units of Study

- In the following slides you will see all of our units of study
- We have five major units
 - Number Sense
 - Ratios and Proportions
 - Expressions and Equations
 - Probability and Statistics
 - Geometry
- Our five units are based upon the Common Core Standards whose mastery your children are assessed on during State Exams – with an emphasis on linear relationships and proportional reasoning

Number Sense

- This unit covers the use of positive and negative numbers
 - Integers
 - Addition and Subtraction
 - Multiplication and Division
 - Absolute Value
 - Rational Numbers
 - On a number line
 - Terminating and Repeating Decimals
 - Addition/subtraction/multiplication/division
- Real World Application
 - Checking Accounts

Ratios and Proportional Relationships

- Building on the previous unit we begin to see how integers work in relation to other integers.
- Topics
 - Rates & conversions
 - Complex Fractions
 - Proportional and non-proportional relationships
- Real world connections
 - Percent applications
 - Discounts/tax/tips/simple interest

Expressions and Equations

- This unit again builds on the previous by incorporating what we have learned about equivalence and applying it to unknown values
- Topics to cover
 - Expressions
 - Simplifying/Factoring/Expanding
 - Equations
 - One Step
 - Multi Step
 - Inequalities
 - Graphing on a number line
 - Solving

Statistics and Probability

- This unit gives us our best opportunity in mathematics to truly get into a hands-on approach
- Topics to cover
 - Statistics
 - Bias vs. Unbiased
 - Descriptive Analysis/drawing inferences
 - Graphs and other data
 - Probability
 - Theoretical vs. experimental
 - Simple vs. compound events
 - Replacement vs. non-replacement
 - Independent vs. dependent events

Geometry

- In 7th grade we cover the basics of both two dimensional and three dimensional shapes/solids
 - Area
 - Perimeter
 - Volume
 - Surface Area
 - Formulas
- This is done to apply mathematical reasoning skills to any real life scenario that involves spatial reasoning

Assessments

- Exit Tickets
- Quizzes
- Tests
 - Pre- and post- assessment exams
- Projects
- Teacher conferencing/observation
 - Last two methods are formative and help determine groups and individual levels of need

How to Best Help Your Child

- There is no one method to help your child
 - Your best bet is to show patience and actually work the problem with your child
 - It is never ok to just give up – even with a wrong answer, perseverance in mathematics can and will eventually lead to better and more full understandings of the subject matter
- There are also many resources available to you and your child – beginning first with the class text
 - <http://www.Deltamath.com>
 - <https://www.ixl.com/math> (\$9.95 per month membership fee)