

Welcome to 8th Grade Math!

Mrs. Sepe

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Email: Isepe@longhill.org

Phone: (908) 647-2311 ext.4024

Course Description:

The Eighth Grade Math curriculum is aligned with the newly adopted New Jersey Student Learning Standards. Students will be prepared to enter Algebra 1 at the High School. Instructional time is focused on three critical areas:

1. Formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations;
2. Grasping the concept of a function and using functions to describe quantitative relationships;
3. Analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem

Upon completion of the course, the student will be able to:

- Know that there are numbers that are not rational, and approximate them by rational numbers
- Work with radicals and integer exponents
- Understand the connections between proportional relationships, lines, and linear equations
- Analyze and solve linear equations and pairs of simultaneous linear equations
- Define, evaluate, and compare functions
- Use functions to model relationships between quantities
- Understand congruence and similarity
- Understand and apply the Pythagorean Theorem
- Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres
- Investigate patterns of association in bivariate data

Technology is incorporated throughout the year, including use of the TI-30-XS Multi View calculator, TI-83 Plus graphing calculator, on-line resources and SmartBoard where appropriate.

Text: *Mathematics Grade 8 Common Core Edition: Holt McDougal 2012*

