8th Grade Math

# Course Overview

Instructor

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School Location

EK Baker Elementary

Eighth grade students will:

* 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.
* Understand congruence and similarity using physical models, transparencies, or geometry software.
* Understand and apply the Pythagorean Theorem.
* Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.
* Investigate patterns of association of bivariate data.
* Define, evaluate, and compare functions.
* Use functions to model relationships between quantities.

# Required Text

*Go Math,* Houghton Mifflin Harcourt

ISBN 978-0-544-06551-2

# Resources

We will use multiple resources throughout the school year. Please refer to the pacing guide for standards that will be covered and resources that might be used. The pacing guide can be found on both the school and district websites.

**Course Schedule**

1st Nine Weeks- Real Numbers, Exponents and Scientific Notation, Proportional and Non-Proportional Relationships.

2nd Nine Weeks-Writing and solving Linear Equations, Functions, solving Systems of Linear Equations

3rd Nine Weeks- Transformations (Congruence and Similarity), Angle Relationships (Parallel Lines and Triangles), Pythagorean Theorem, Volume, and Scatter Plots

4th Nine Weeks- Two-Way Tables

**Additional Information:**

Field trips, guest speakers, and major projects will be determined throughout the school year.