

# Mr. Molenkamp's Math Class

## Overview of Concepts

### Numbers

- Place Value through Millions
- Estimate, Order, and Round Numbers

### Fractions & Mixed Numbers

- Understanding fractions and decimals
- Compare & Order Fractions
- Compare & Order Decimals
- Fraction and decimal conversion
- Identifying equivalent fractions and decimals
- Fraction and Decimal Computation

### Multiplication, Division & Number Theory

- Multiply by 2 and 3 digit numbers
- Divide Greater Numbers
- Divide 3-digit numbers
- Number Theory
- More Expressions and Equations

### Algebra and Functions

- Numeric Patterns
- Variables
- Equations with Two Variables
- Expressions & Equations

### Measurement & Negative Numbers

- Units of Measurement
- Temperature and Negative Numbers

### Geometry & Measurement

- Measurement Conversions
- Plane Figures
- Congruence and Symmetry
- Perimeter and Area
- Solid Figures

### Graphs & Algebra

- Graphs and Ordered Pairs
- Integers on a Coordinate Grid
- Statistics & Probability

- Data Analysis
- Probability

We will be covering many different topics of varying degrees of difficulty. Many of these areas have been introduced in previous years and we will approach them at a more advanced level. The above is an overview of the concepts covered this year, however, the order may vary as we progress through the year. Problem solving skills and strategies will be integrated throughout all units.

\*Please be aware that there are times when I do not teach a concept the way it is



presented in the book or I may only teach one of the ways presented if we feel the other way may be confusing. There will always be examples of the concept presented in class in their journals.

### **Daily Routine:**

#### **Homework Correction:**

At the beginning of each class we will correct the homework assignment and answer any questions.

#### **New Lesson:**

A new lesson or concept will be introduced which we will discuss in-depth and practice during each class period. Students are required to take notes during direct instruction in their math journals. I will review important vocabulary, explain the concept being presented and provide examples for how to solve each type of problem. These journals and math workbooks can be used at home to reference when completing homework or reviewing for tests.

#### **Homework:**

Homework is assigned most nights, Monday through Thursday, which provides further practice of the concepts covered in class. It is strongly encouraged for students to mention to the teacher any difficulties they encountered as it provides valuable feedback. Students should should be able to complete the assignment independently. On the days of a test, usually no homework will be assigned.

#### **Assessment:**

Tests will be given at the end of each chapter. Students are also expected to participate every class by being open and honest about their understanding. Students will need to have math folder, math textbook, math journal, sharpened pencils and a correction pen to be adequately prepared for each class.

\*Math enrichment is open to all students and can be a signifier for preparation for skipping levels. Student initiative, follow-through, and enjoyment of additional work are required for this type of promotion.

**Communication:**

Please look for out Twitter updates on the Rhoades School's Twitter account.

I am delighted to be working with this talented group of mathematicians. If any questions or concerns arise during the course of the year, please don't hesitate to contact me. I can be reached via email at [smolenkamp@rhoadesschool.com](mailto:smolenkamp@rhoadesschool.com).

Thank you,

Syd Molenkamp  
The Rhoades School  
Fifth Grade