

MATH FOUNDATIONS - SESSION 3

Instructor: Laura Erlig

Objective: The Foundations course is designed to prepare students with the foundational math skills necessary for advanced math. The class uses the Everyday Mathematics text, games, and Khan Academy. In session 3, students will work on fraction, decimal, percent concepts, as well as number systems and algebra concepts. Students will also learn to apply these topics to real-life situations.

Unit 3: Decimal Operations and Percent

- Place Value and Expanded Form with Decimals
- The Density of Rational Numbers
- Reviewing Decimal Addition and Subtraction
- Reviewing Decimal Multiplication
- Long Division with Whole Numbers
- Exploring Long Division with Decimals
- Exploring Decimals with price
- Introducing Percent
- Finding Percents
- Percents as Ratios
- Exploring Percent Problem Solving strategies
- Introducing Box Plots
- Making Box Plots and Finding Interquartile Range
- Comparing Data Representations

Unit 5: Area and Volume Explorations

- Area of Parallelograms
- Area of Triangles

Unit game: Getting to One, Multiplication Wrestling, Fraction Action, Fraction Friction, Hidden Treasures, Division Top-It, Name that number, and Ratio Dominoes

Expectations:

- Participate in class including asking for help or questions.
- Do your best to meet personal goals.
- Complete homework assigned.

Tips:

- Use your time wisely in class and at home. If you are distracted, the lessons will take 2 or 3 times as long.
- Ask for a copy of the Unit games and practice them at home as well.