

Math Foundations

Session 1

Instructors: Laura Erlig

The Math Foundations course is designed to prepare students with the foundational math skills necessary for advanced math. The class uses the **Everyday Mathematics** text, games, as well as Khan Academy. In Session 1, students will practice basic foundations of math while learning how to collect, display, and interpret data, as well as perform operations with whole numbers and decimals. Students will apply these topics to real-life situations.

Unit 1: Data Displays and Number Systems

Lessons include:

- Exploring statistical questions
- Creating dot plots
- Introducing the mean, and the mean as a balance point
- Comparing mean, median, and mode
- Analyzing persuasive graphs
- Introducing histograms
- Examining shapes of graphs
- Introducing integers
- Building a number line using fraction strips
- Finding fractions between fractions
- Locating negative rational numbers on the number line
- Plotting ordered pairs of rational numbers
- Identifying quadrants

Expectations:

- Participate in class, including asking for help or questions.
- Do your best to achieve your own goals.
- Complete homework assigned.
- Watch the assigned video/s and take notes in a spiral notebook.
- Check on Google Classroom for assignments and progress of completed work.

Tips:

- Use your time wisely in class and at home. If you are distracted, the work will take 2 or 3 times longer.
- Check Google Classroom daily.
- Display work to how you solved your problem
- Practice things you do not understand to become more familiar with it and make it easier

for yourself.

- Know your multiplication tables by memory

Rubric

- 60% Assessments (include quizzes, tests, and projects weighted by the number of points assigned)
- 25% Independent practice (include homework and classwork)
- 10% Participation (actively asking questions, answering questions, and being productive in class)
- 5% Attendance (being on time and prepared for class)