

Mrs. Tobes
Math 8 | Syllabus
2023-2024
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Upon completion of this course, students should be able to:

- Represent a linear function with a graph, table, rule, and context and create any representation when provided one of the others.
- Solve systems of equations by using tables and graphs.
- Symbolically manipulate expressions to solve problems including those with fractional coefficients.
- Solve contextual word problems using multiple strategies, including making tables, looking for patterns, drawing diagrams, and creating a table of guesses to assist with writing and solving a variable equation.
- Describe various geometric transformations on a coordinate grid.
- Represent data using scatterplots and describe associations.
- Collect and analyze data and make predictions based on the trend of the data.
- Compare ratios and calculate unit rates and slope ratios.
- Analyze the slope of a line graphically, numerically, and contextually.
- Recognize and solve problems involving proportional relationships.
- Graph and analyze non-linear functions.
- Recognize and use the properties of similar figures to solve problems.
- Use the Pythagorean Theorem and its converse to solve problems in two and three dimensions.
- Use square roots and cube roots.
- Represent and simplify expressions using positive and negative exponents.
- Represent and compare large and small numbers using standard and scientific notation.
- Perform operations with numbers represented in scientific notation.
- Use the relationships between angles created by parallel lines with transversals and the Triangle Angle Sum Theorem to solve problems.
- Compute the volume of a variety of solids.

Classroom Management Plan:

- 1) Follow procedures
- 2) Be prompt
- 3) Be prepared
- 4) Be productive
- 5) Be polite

Consequences:

Consequences are earned when one of the classroom management plan components are not being implemented by the student.

- 1) Warning
- 2) Time out (5 minutes)
- 3) Buddy room and parents contacted
- 4) Administration

Severe clause: Directly to administrator

Participation:

- 1 point per day
- -1 point every time out of classroom for reasons other than restroom

Attendance:

- Your attendance is **important**. When you miss class you miss new material that you will have to learn on your own. You cannot make up work from an unexcused absence.
 - The week plan is on google classroom under “**check your understanding**”. The lessons for the week are posted.
 - You can check in the textbook or the corresponding **parent guide** worksheets for the lesson materials.
 - **Notes** are posted on google classroom as well.
 - You can also check in with your **study buddy**.
- You are tardy if you are not in your seat when the bell rings.

Homework:

- Homework will be graded on Fridays through a short google form where solutions to a few questions will be entered.
- Students are to get homework help through the website, emailing me, collaborating with their group or using the answer key.
- Scores are added to at least one academic standard.
- Homework notebooks are collected at the end of each chapter.
- In addition to accuracy homework is also scored on the following:
 - First and last name on notebook as well as period #
 - Date on each homework assignment
 - Homework assignments clearly labeled
 - Exercises are clearly numbered
 - All work shown for each exercise
 - Diagrams from exercises are drawn and interacted with

Friday Quizzes:

- Friday quizzes will be made up on Monday. If you are absent on Monday, you cannot make up the Friday quiz although you will be responsible for it's content.
- Quizzes are returned on Tuesdays.
- Blank quizzes and answer keys are posted on Tuesdays.

Tests

- There will be a test for each chapter.
- The study guide for the test will be posted at the beginning of each chapter starting with chapter 1.
- **You are expected to be present on the day of tests. Tests will be made up the next school day.**

Late Work:

- No late work is accepted unless extended time is an accommodation via IEP or 504.