

Mathematics 7  
2017-2018 School Year  
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### Message from the Teacher

Welcome to 7<sup>th</sup> grade! This course is a crucial gateway to understanding higher mathematics. I have high expectations for my students because I want them to be successful, not just in my class but also in the future.

### Communication

If you have any questions or concerns, please send me an email at any time.

### Course Description

In Math 7, we will reinforce arithmetic skills while developing a basic foundation of algebraic skills. In this course, students will study topics which include fractions, decimals, percentages, ratios, integers, probability and data analysis, and basic geometry concepts, while being introduced to variables and variables expressions, simplifying algebraic expressions, solving basic equations and inequalities, proportions, and graphical representations of equations. Problem solving and real world applications are emphasized.

### Student Materials

- Scientific Calculator (TI-30XII)
- Pencils
- Three ring binder
- Envision Textbook (to be kept in your binder)

### Major Course Objectives

- Students will be to use order or operations to simplify expressions containing decimals, fractions, and integers.
- Students will be able to calculate the mean, median, and mode and identify outliers for given data sets.
- Students will be able to create and analyze scatter plots, stem-and-leaf plots, and box-and whisker plots.
- Students will be able to apply formulas to find perimeter, circumference, area, surface area, and/or volume of given shapes (including circles, parallelograms, triangles, trapezoids, prisms, cylinders, cones, and spheres)
- Students will be able to simplify algebraic expressions by combining like terms and the distributive property.
- Students will be able to solve equations and solve and graph inequalities.

### Major Projects

- Topic 1: Integers and Rational Numbers

- Topic 2: Analyze and Use Proportional Relationships
- Topic 3: Analyze and Solve Percent Problems
- Topic 4: Generate Equivalent Expressions
- Topic 5: Solve Problems Using Equations and Inequalities
- Topic 6: Use Sampling to Draw Inferences About Populations
- Topic 7: Probability
- Topic 8: Solve Problems Involving Geometry

#### Teacher Homework Policy

Students will be given a short written homework assignment nearly every day. The assignments will be checked for completion, not for accuracy. If a student attempted each problem, showing all required work, full credit will be given. If no attempt has been made, or work is not there, a score of zero will be awarded. Partial credit will be given for partially complete assignments. Homework will be gone over in class, and students are expected to check their work.

#### Teacher Grading Policy

Grades will be calculated on a total points system, where a student's grade is the ratio of points earned to points available. Daily homework assignments will be worth 5 points each. Quiz and project values will vary, depending on the amount of material covered and the amount of work involved. Late projects will be penalized 10% per day late. If a student is absent, he or she is expected to make up the work upon his or her return and has the number of days he or she was absent to hand in assignments. Students will also be given a responsibility grade for bringing the necessary supplies (book, notebook, pencil, calculator) to class each day and a classwork grade for maintaining his or her notebook.

I am available for extra help daily, unless I have a meeting to attend. All your child has to do is ask! I update homework scores online almost daily. Tests, quizzes and larger projects will be available within a week, usually sooner.

#### Classroom Management Plan

##### **Student Expectations**

1. Be here, be ready.
2. Be respectful.
3. Be responsible.
4. Be actively engaged in learning
5. Follow instructions the first time

##### **Consequences**

1. Verbal Warning
2. Student-Teacher Conference
3. Teacher Detention
4. Parent/Guidance Contact
5. Code of Conduct Referral

#### Extra Help

I am available for extra help Monday through Thursday until at least 3:25, unless I have to attend a meeting. I am in early on Wednesday mornings at 7:30 to meet with my MathCounts students and can also offer extra help at that time.