

Mr. McConnell
Course Expectations
Eighth Grade Math
PERSONAL CONTACT INFORMATION:
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I. Course Scope:

This one-year course is designed to provide students with the necessary knowledge and skills to be prepared for Algebra. It is intended to increase mathematical fluency in problem solving, logic, reasoning, and effective communication. This course builds on the concepts of number operations with integers, decimals, rational numbers, data analysis, probability, geometry, measurement, spatial relationships, patterns, and algebraic concepts. The use of technology, including calculators and computer software, is an integral part of this course. This course fulfills the mathematics requirement for eighth-grade students.

II. Course Goals:

1. To extend understanding of the real number system and its properties to include absolute value, radicals, powers, scientific notation, squares, square roots, order of operations, estimation and computation with rational and irrational numbers and integers.
[NS: 1.8.3, 1.8.2, 1.8.3, 1.8.5, 1.8.7, 1.8., 3.8.4, 3.8.5]
2. To compare, order, and translate between and among fractions, decimals, and percents. [NS: 1.8.2, 1.8.3, 1.8.7]
3. To identify, describe, and apply patterns, sequences, relations, and functions.
[NS: 2.8.1, 2.8.4, 2.8.6]
4. To develop strategies to use and solve formulas, interpret graphs and tables, and solve one and two-step equations and inequalities. [NS: 2.8.2, 2.8.3, 2.8.5, 3.8.3]
5. To determine the slope of a linear relationship from a graph or set of ordered pairs.
[NS: 4.8.5]
6. To solve problems using algebraic techniques and geometric relationships including the Pythagorean Theorem, distance formula, and midpoint formula. [NS: 2.8.2, 4.8.6, 4.8.7]

7. To apply measurement concepts and skills using the customary and metric systems with an emphasis on understanding of precision, error, and tolerance. [NS: 3.8.1, 3.8.2, 3.8.3, 3.8.4, 3.8.5]
8. To solve problems in two- and three-dimensions using coordinate planes, models, and geometric tools. [NS: 4.8, 4.8.2, 4.8.3.4, 4.8.6, 4.8.7, 4.8.8]
9. To measure and compute perimeter, area, volume, surface area, and angles using appropriate units. [NS: 3.8.1, 3.8.2, 3.8.3]
10. To collect, organize, display, and analyze data using graphical representations including line plots, bar graphs, stem and leaf plots, box and whisker plots, histograms, scatter plots, and circle graphs. [NS: 5.8.1, 5.8.2, 5.8.3, 5.8.6]
11. To conduct experiments and compare the experimental and theoretical probability and calculate the number of permutations and combinations of an event. [NS: 5.8.4, 5.8.5]
12. To develop and extend problem-solving skills in order to communicate and reason mathematically and apply previously learned strategies. [NS: A, B, C, D]

III. Class Policies:

A. Grades:

Points earned on class assignments, projects, tests, quizzes, and homework will be averaged to determine grades as follows:

90% -100% = A	CLASSWORK / HOMEWORK 30%
80% - 89% = B	
70% - 79% = C	TESTS / QUIZZES 70%
60% - 69% = D	
59% -.0% = F	

SEMESTER 1		SEMESTER 2	
QUARTER 1	40%	QUARTER 3	40%
QUARTER 2	40%	QUARTER 4	40%
FINAL EXAM	20%	FINAL EXAM	20%

B. Policies and Procedures

1. I will be available Monday through Thursday for 30 minutes at 7:30 AM and 2:15 PM for any assistance or help students may need.
2. Unexcused late work deductions: 1 day - 10%, 2 days - 20%, 3 days 30%, 4 days – 40%, 5 days – 50%, more than 5 days – No Credit.

3. Absent policy: Students have 3 days to initiate contact with a teacher after they return to school from being absent. Upon initiating contact, the teacher and student will develop a reasonable timeline for missed work to be completed and submitted.
4. Tests can be retaken within one week from the time when they are graded and returned to the student. The student will be given credit for the highest grade received.
5. Upon completion of each semester, students will take a comprehensive exam, which will be worth 20% of the semester grade.
6. Citizenship grades will reflect student participation, cooperation, respect, effort, and ability to conduct oneself appropriately during each class. Students should expect to receive an "S" for displaying these characteristics. Those students excelling in these characteristics should expect an "O." Students needing constant reminders of expected conduct should expect to receive a "U" or an "N" (Needs Improvement.)

C. Progressive Discipline Policy:

Any behavior that interrupts the learning environment will be addressed according to the following progression of consequences:

1. Warning and reminder of expected behavior.
2. Teacher detention to be held after school for one hour. A student who does not attend detention will be assigned additional detention and a call will be made to parents.
3. Phone call to parent or guardian.
4. Referral to counselor.
5. Referral to dean.

IV. Materials:

1. #2 **PENCILS**
2. Red pens (2)
3. Colored pencils (1 Box)
4. Ruler
5. Protractor
6. Compass
7. **LOOSE LEAF** Lined Paper for **ALL** homework and classwork.
8. **JOURNAL** for all **NOTES** and vocabulary.

Our signatures below show that we have read these course expectations and agree to follow them throughout the school year. If we have any questions or concerns we will contact you at the school.

Student Signature _____

Parent/guardian Signature _____

Print parent or guardian name _____

Contact Numbers:

Day _____ Evening _____

Cell (Father) _____ Cell (Mother) _____

E-mail _____