

**Course Expectations
Mathematics 7-1250
Ms. Kathleen Schaeffer
Bob Miller Middle School
2008-2009**

I. Course Scope and Goals

A. Course Scope:

This one-year course is designed to increase mathematical fluency in problem solving, logic, reasoning, and effective communication. This course builds on the concepts of number operations with integers, decimals, and rational numbers, problem solving and reasoning skills, 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 seventh-grade students.

B. Course Goals:

1. To extend understanding of numbers and their properties to include absolute value, radicals, powers, scientific notation, squares, square roots, order of operations, estimation and computation with rational numbers and integers.
2. To compare, order, and translate among fractions, decimals, and percents.
3. To describe and evaluate patterns and relationships using models, tables, charts, and graphs.
4. To write and simplify algebraic expressions and develop strategies for solving and graphing one and two step linear equations and inequalities.
5. To use algebraic techniques to solve problems involving geometric relationships including the Pythagorean Theorem and finding the hypotenuse of a right triangle.
6. To determine the slope of a linear relation from a graph using the ratio of rise to run.
7. To identify congruent and similar two-dimensional shapes by recognizing ratios and proportional relationships, using hands on activities and sketches, and graphical representations, including transformations.
8. To measure perimeter, area, volume, and angles using the appropriate units.
9. To use formulas to calculate circumference of circles, areas of triangles, parallelograms, trapezoids, and simple interest.
10. To conduct experiments and compare experimental and theoretical probability of an event and calculate the number of permutations and combinations of an event.
11. To collect, organize, display, and analyze data using graphical representations including line plots, bar graphs, stem and leaf plots, histograms.
12. To develop and extend problem solving skills in order to communicate and reason mathematically and apply previously learned strategies.

II. Course Strands and Sequence

1st Quarter

Patterns and Number Sense
Number Theory and Algebraic Reasoning
Functions, Equations, and Inequalities

3rd Quarter

Data and Statistics
Proportional Relationships
Geometry and Measurement

2nd Quarter

Ratio, Proportion, and Percent
Functions, Equations, and Inequalities
Geometry and Measurement

4th Quarter

Geometry and Measurement
Probability

III. Course Activities

A. Tests: The teacher will administer tests and quizzes throughout the course of study to determine the individual student's development as well as the effectiveness of the teaching strategies utilized. Quizzes may be administered weekly. Unit tests will be administered at the conclusion of each unit of study. Semester exams will be given at the end of each semester.

B. Assignments: Students will be given homework assignments Monday through Thursday as stated in the School-Wide Homework Policy. Work must be completed in PENCIL and all work must be shown to receive full credit. All assignments must include the Bob Miller MS Heading. These assignments will directly relate to the material that has been presented and discussed in class. Students will be given time to begin these assignments and receive individualized assistance in class. Each student will keep homework assignments in his/her binder.

All daily, short, and long-ranged assignments are due the following day or on the date identified by the teacher. If a student is absent on the day an assignment is due, the completed assignment is due the day the student returns to school. If a student does not turn in an assignment on the day it was due, he/she may be penalized 10% for each day that it is late. If a student does not complete an assignment, then he/she must turn in a form indicating that he/she did not do or did not have the assignment. In addition, the student should indicate why the assignment was not handed in or completed. Late assignments need to be completed for review of information and acquisition of knowledge. Three or more late or missing assignments may result in an after school detention.

C. Makeup Work (CCSD Reg. 5113): After any absence, a secondary student is required to initiate contact with the teacher to obtain appropriate makeup work within three (3) days immediately following the absence. Once the contact has been made with the teacher, specific makeup work must be completed and returned to the teacher within a reasonable length of time, to be determined by the teacher and communicated to the student/parent or legal guardian. The makeup work must be returned to the teacher by the specified due date if it is to be acknowledged. Students shall be allowed a minimum of three (3) days to complete makeup work.

Students will find the assignments for the week listed on the classroom board and should copy these into their planner, utilizing the 3-day schedule. Students absent for more than a one-week period should contact the teacher to arrange for a complete makeup schedule.

D. Enrichment: The teacher will provide enrichment materials for the exceptional student above and below average grade level.

E. Extra credit may be offered at various times throughout the year. Extra credit will not be available unless all regular class work is done.

F. Across The Curriculum Activities

1. Writing Process: Students will frequently be asked to write about mathematical concepts. The purpose of using writing skills in this manner is to assist student in clarifying their mathematical concept understanding while encouraging the students to apply their knowledge in creative methods. The teacher may include the writing process in weekly homework assignments and on quizzes/tests. Students will be expected to write about

- how they solved problems, to take notes, to identify vocabulary, and to write and answer story problems.
2. Technology: Students will be encouraged to use both calculators and computer related technology wherever it is deemed appropriate and complementary in the mathematics curriculum.
 3. Study Strategies: Two-column notes, three-column notes, concept mapping, outlining, vocabulary study, and other strategies will be used.
 4. Problem-Solving Strategies: Strategies will be employed throughout the year and related to specific mathematical concepts. Students will use strategies to solve daily and weekly problems.

IV. Materials

- A. Each student will be issued a copy of the textbook, McDougal Littell Math, Course 2. The student will be responsible for the care of these books for the entire school year. If a book is lost or stolen, the replacement cost will be \$60.00. The student will pay a portion of the total cost if the book is in need of repair. This fee will be assessed appropriate to the damage done to the textbook.
- B. The following materials will be needed each day in class:
 1. A 3-ring notebook with four red tab dividers and notebook paper – Students will be required to keep a section in their notebook for their mathematics class. This section will be divided into 4 areas: vocabulary/notes, warm-ups, assignments, and tests. Student notebooks will be evaluated regularly.
 2. Pencils, erasers, and a red ball point pen for grading
 3. Protractor and ruler
 4. Bob Miller Middle School planner

V. Evaluation

- A. Criteria for arriving at student grades:
 1. Tests/quizzes will constitute 30% of the quarter grade.
 2. Homework assignments will constitute 20% of the quarter grade.
 3. Classwork and problem solving activities will constitute 30% of the quarter grade.
 4. Participation will constitute 20% of the quarter grade.
 5. The semester grade is determined by averaging the two-quarter grades each with a 40% weight and the semester exam with a 20% weight.
- B. Explanation of Student Grades

| | | |
|---|-----------|---------------|
| A | 90%-100% | Excellent |
| B | 80% - 89% | Above Average |
| C | 70% - 79% | Average |
| D | 60% - 69% | Below Average |
| F | Below 60% | Failing |
- C. Grade reports will be issued as follows:
 1. Grade day reports will be given four times a year, midway through each nine week reporting period.
 2. Quarter grades will be given on a report card four times a year, at the end of each nine-week reporting period.
 3. Semester grades will be given twice during the year, at eighteen week intervals. Semester grades will be a combination of a semester exam grade and grades for the two quarters.

4. Grades will be updated and posted weekly.

VI. Behavioral Expectations.

A. Specific Classroom Rules:

1. Come to class on time, prepared, and ready to learn.
2. Show respect to others and the learning environment.
3. Raise your hand to speak and stand when called upon.
4. No food, beverages, or gum permitted in class.
5. All work must be completed in pencil.

B. Academic Dishonesty

If students are found guilty of academic dishonesty (cheating/plagiarizing), the teacher shall collect the assignment, mark a zero for the work and notify the parent of the consequence. A second offense of cheating or continued academic dishonesty may result in a notice of required parent conference at which time future consequences will be discussed.

C. System of Graduated Consequences:

1. First disruption – Verbal warning
2. Second disruption – Classroom citation and student/teacher conference
3. Third disruption – 2nd classroom citation and parent contact
4. Fourth disruption – 3rd classroom citation and a counselor referral
5. Fifth disruption – 4th classroom citation and a dean's referral. This step will continue for each infraction that follows.

A classroom citation log will be kept with the purpose of documenting student infractions and will impact upon the citizenship grade. Students will be expected to sign the citation log when they have broken a classroom rule.

D. Citizenship Grade

All students will receive a citizenship grade for every class. The citizenship grade is also a reflection of the student's attitude and effort toward achieving personal best. Students receiving two or fewer citations during the nine-week period will receive an "Outstanding" for the nine-week period. Students receiving three to four citations will receive a "Satisfactory" for the nine-week period. Students receiving five to six citations will earn a "Needs Improvement" for the nine-week period. Students who receive seven or more citations will earn an "Unsatisfactory" for the nine-week period. Citation reasons are directly linked to school rules. Serious infractions will result in immediate parent contact and/or a dean's referral.

E. Tardy Policy

Tardy students are reported to the dean using ClassXP. All students are expected to be in class on time. A student is considered tardy when both feet are not in the classroom when the bell begins to ring. Tardy students will be reported to the deans and will receive consequences in accordance with the school-wide tardy policy.

VII. Communication

The teacher will be available for student and parent conferences before and after school and can also be reached via e-mail or by telephone. Parent conference appointments must be scheduled through the counseling office (799-2260). The e-mail address is KLSchaef@interact.ccsd.net. Grades and homework may be accessed on ParentLink.

Period _____

Please sign and return after reading and discussing the expectations for this class.

My signature below verifies that my child and I have read and discussed these expectations for Mathematics 7. We understand parent participation is essential in the education process and that teacher and parent working together can create an optimal learning situation.

1. Student (Print Name)

Student Signature

Date

2. Parent/Guardian (Print Name)

Relationship to Student

Daytime Phone

Cell or Home phone

Email Address

Parent/Guardian Signature

Date

3. Parent/Guardian (Print Name)

Relationship to Student

Daytime Phone

Cell or Home phone

Email Address

Parent/Guardian Signature

Date
