



Math 2

Gary Porper

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gary.porper@mtchs.org

(208) 288-2928 Ext. 108

COURSE DESCRIPTION

The major purpose of Math II is to extend the mathematics that students learned in Math I, including working with quadratic, absolute value, and other functions. Students will explore polynomial equations and factoring, and probability and its applications. Coverage of geometry topics extends to polygon relationships, proofs, similarity, trigonometry, circles and three-dimensional figures. The Mathematical Practice Standards apply throughout each course and, together with the content standards, create mathematical learning experiences based upon reasoning and sense-making, building perseverance and problem-solving skills, and rich in mathematical discourse.

TOPICS

Semester 1

- Functions and Exponents
- Polynomial Equations and Factoring
- Graphing Quadratic Equations
- Solving Quadratic Equations
- Probability

Semester 2

- Quadrilaterals and other Polygons
- Similarity
- Right Triangles and Trigonometry
- Circles
- Circumference, Area and Volume
- Parallel and Perpendicular Lines

CLASS MATERIALS

You will need a notebook, three-ring binder or similar object (for notes, handouts, tests, and quizzes), a pen and a pencil. Computer and/or graphing calculator. **All materials should be brought to class each day unless told otherwise.**

COURSE EXPECTATIONS

- Be Respectful: For yourself, each other, and the learning environment.
- Be Prepared: Come to class prepared with all supplies and homework.
- Be Efficient: Stay organized, on task, and know what to do when you arrive each day.
- Be Responsible: Stay on top of PowerSchool and/or Moodle to keep track of your grades and know when tests and quizzes are planned.
- Be Honest: You are in charge of your own learning. Be honest with yourself about your progress in math.
- Be Kind: Include others, look out for one another, and use kind language.

GRADING BREAKDOWN SEMESTER

Your semester grade will be based on points accumulated on homework, quizzes, tests, projects, and your participation and cooperation in classroom activities.

1. Daily Work accounts for 25% of the student's grade.
2. Quizzes account for 20% of the student's grade.
3. Unit Tests account for 30% of the student's grade.
4. Projects account for 15% of the student's grade.
5. Final Exam accounts for 10% of the student's grade

GRADING SCALE

A	90 to 100
B	80 to 89
C	70 to 79
NC	0 to 69

DAILY WORK POLICY

Daily Work should be done in pencil. Daily work is due the day it is assigned or the next day the class meets unless stated otherwise. Daily work will be graded on a ten-point scale. The daily work scale is as follows:

- One problem from the assignment will be randomly selected and graded for correctness. It will be worth 3 of the 10 points for the assignment. The remaining 7 points will be based on completion of the assignment.

- **7-** you honestly attempted all problems. For those problems you did not fully understand, you did any work you could and wrote down a note explaining why you got stuck. Your work is neat and well organized.
- **4-** you attempted many of the problems, but may have had trouble and not done much work on many of them. Your work may not be as neat or organized as it could be.
- **2-** a significant portion of your assignment is not complete. Your work may be illegible or very poorly organized.
- **0-** you did not do the assignment.

Late assignments will be accepted with a penalty up to the day of the test covering the material on the assignment. No late assignments will be accepted after this date for any reason.

Mathematics is a language that takes practice to acquire. You cannot expect to do well on quizzes and tests without consistently practicing problems. Therefore, it is extremely important that you **do your daily work**. I encourage you to work together on assignments. However, you may not simply copy another person's work. If this happens, both parties will receive a 0 for that assignment.

QUIZ AND TEST POLICY

There will be two types of quizzes:

1. Occasionally, at the end of going over a homework assignment, I will give a 2 or 3 question quiz that will consist of problems exactly like the homework problems. This is worth 5 points. You will be allowed to only use your homework on this type of quiz.
2. For longer quizzes, which are worth more than 5 points, I will give an advance warning of at least a week.

Tests will be given regularly to test your understanding and knowledge of the material. A test will usually be given after each chapter, or about every two to three weeks. All tests will be announced with at least one week's notice.

TEST AND QUIZ CORRECTIONS

You are allowed to do test corrections. You may get help from your classmates, parents or teacher. Please make sure you understand your errors enough to explain them clearly.

You must do the following on a separate piece of paper for each incorrect problem the test:

1. Number the problem and rewrite it.
2. Write at least two complete sentences explaining what your error was and what you need to do to correct it. Write enough to prove you understand it now.
3. Show all the work to correct the problem and include the right answer.

You can earn as much as half the missed points back

ABSENCES AND MAKE-UPS

If you were absent and it is excused, it is your responsibility to find out what you have missed. You can find what was covered in class and the daily assignment by contacting me, a fellow student, or looking on Moodle and/or PowerSchool. I will give you a make-up test/quiz date that is reasonable.

ATTENDANCE POLICY

The attendance policy is explained in the MTCHS Student Handbook. I will follow the school's policy on attendance and tardiness. Students should make every attempt to attend class and be on time for class when on campus.

WORKPLACE SKILLS

In order to prepare for the internship, students will be instructed and assessed on the MTCHS Framework skills. This is done throughout the course and woven into various activities.