

Geometry Standard

Morton High School



Geometry at a Glance

Geometry is a mathematics course that explores plane figures and their relationships. Emphasis is placed on reasoning through the use of deductive proof and problem solving. Major areas included are congruent and similar triangles, quadrilaterals, circles, and area. Technology such as the TI-Nspire and/or DESMOS will be used to enhance student learning.

Topics Covered:

Essentials of Geometry, Reasoning and Proof, Parallel and Perpendicular Lines, Congruent Triangles, Relationships within Triangles, Similarity, Right Triangles and Trigonometry, Quadrilaterals, Properties of Transformations, Properties of Circles, Measurement of Figures and Solids

Textbook:

Holt McDougal Larson Geometry Common Core Edition (Larson, Boswell, Kanold, Stiff. Houghton Mifflin Harcourt, 2012)

Available Resources

All blank notes, completed notes, homework, answers to homework, blank reviews and answers to reviews are available on Schoology.

Absences

Students need to take the initiative to find out what was missed in class after an absence. All completed written notes and homework solutions are available online each day. Please see the Schoology page before asking questions. Emails are much appreciated if there is confusion about notes, assignments or the student's absences leading up to an assessment. **Students who are absent the day before or day of a major assessment must email the instructor with a firm make-up date ASAP.**

Mathematical Practice Standards

All Morton High School Students will:

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make use of structure
- Look for and express regularity in repeated reasoning

Grading Procedures

A Total points system is used to calculate grades. Grades are determined by dividing an individual student's accumulated point total by the total number of points possible.

Tests:	100 points maximum
Quizzes	50 points approx
Skill Checks.....	Points vary
Homework	2 points

Homework will be posted in schoology for the most part. A majority of the assignments will be submitted to Schoology, not turned in physically. All homework is due at the time of the major assessment (Quiz/Test). Any homework not completed at that time will receive a 0.

Skill Checks are short quizzes that students may retake to earn points back. Skill checks can be retaken multiple times, but retakes for a particular unit must be redone by the time of the major assessment (Quiz/Test). Any skill check not retaken at that time will keep the highest score that has been achieved.

Extra Credit may be available at the teachers' discretion.. It will involve a project or selection of problems. As per department policy, the extra credit is worth 2% added to the semester grade percentage.

Quizzes and Tests are not able to be retaken.

Academic Assistance

First and foremost, students are expected to actively engage with class activities before requesting academic assistance outside of class time. Students who have the same HOMEROOM as the teacher may get a pass for additional assistance during that time.

Teachers are also available before/after school on most days. .

Students should ask for assistance via email (*preferred*) or during class. Emailing helps to make sure that your teacher is available and can give the appropriate assistance. We are always happy to work with students when they need assistance, **but students need to be proactive so that they can get help when they need it.**

Classroom Norms for Technology

Students will await further instructions given by the teacher. Students will listen for teacher's cue to close screen of iPad when whole-group attention is needed. Students will save/turn in work as needed and completely put away iPads when directed to do so. Students will visit only the websites listed in the activity, Schoology, or stated by the teacher. Any accidental deviation to an unauthorized website should be reported to the teacher immediately. Students will not eat or drink in the classroom when iPads are being utilized. **PHONES WILL BE SILENT AND PUT AWAY UNLESS GIVEN PERMISSION.** Failure to follow these norms may result in referral and/or confiscation.

Supplies Needed

- Notebook or Charged iPad for notes and/or homework
- Pencils
- TI- 30XS Multiview or TI-Nspire CX or CX II

Helpful Websites

PowerSchool is an excellent way to stay on top of your grades, tardies, and absences:

<https://ps1.morton709.org/public/home.html>

Schoology is where students AND parents access content, assignments, announcements and resources:

<http://mcusd709.schoology.com>

Class Expectations

- Students are expected to be active participants in the learning process. This includes participating in class discussions, thinking about questions posed by the teacher and by classmates, construct viable mathematical arguments, and to help create an atmosphere that is conducive to learning.
- Students are expected to be responsible students. Responsible students are ready to learn throughout class by having required materials, being respectful of others and self, and being focused on mathematics. Students are also expected to complete assigned tasks (homework, class work, and other assignments), and seek extra help from the classroom teacher, as needed. Furthermore, responsible students will correct mistakes on homework and quizzes and will do their best to learn for understanding.
- Students are expected to show knowledge of all course objectives and apply that knowledge to real world situations. Furthermore, retention of material beyond the unit assessments is necessary. Students are expected to apply previously learned mathematics to new content to strengthen their mathematical understanding. Students will be expected to apply algebraic, numerical, and graphical reasoning to solve problems and explain their reasoning to others.

Thank you and I look forward to working with you to not just do math problems, but learn how to write about math, improve your logic skills and become a better math student.

