

Geometry

Course Title: Geometry
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Essential Questions

- What are the different ways to prove that two objects are identical or similar?
- How are geometric shapes constructed? How was this done before and after modern technology?
- What is the relationship between circles, triangles, and angles? Where do we see this around us?
- Where does Geometry intersect other disciplines (i.e. Algebra, Statistics, Engineering, History, Art)?

Course Description

Geometry is a yearlong course in geometric construction and proof and is a required high school mathematics course. This course focuses on geometry experiences that formalize students' geometry work in elementary and middle school by utilizing more precise definitions and developing careful proofs as called for in the Common Core State Standards and NCTM. During the course, students engage in activities devoted to plane Euclidean geometry, both synthetically (without coordinates) and analytically (with coordinates).

Course Topics

This course is divided into two semesters. Topics for the year include congruence proofs, similarity proofs, geometric constructions, introductory trigonometry, three-dimensional geometry, coordinate and analytic geometry. Students will explore the critical relationships between circles, lines, triangles, and quadrilaterals to explore essential geometric ideas.

Grading Categories

Course grades are awarded according to a weighted average of four categories. Weighting and descriptions of each category are as follows:

70% Assessments (tests, quizzes and projects)

Assessments will be of one of two forms: *formative* and *summative*. Quizzes are *formative* in nature because they occur during the study of material and help in developing understanding for both student and teacher. Expect a quiz each week. *Summative* assessments (chapter tests and final examinations) are comprehensive, less frequent, and carry more weight. All assessments must be completed during one "sitting" (you may not leave and return to finish it later) and restroom breaks are not allowed. Expect a test about every month and final exam at the end of each semester.

10% Homework (Regular Practice or other assignments)

Research shows that the more students are engaged in learning activities, the more students will learn. Homework is given to help practice essential skills outside of class; often this work can be completed independently.

20% Formative Assessments (Journal Reflections, Self-Assessments, Practice Activities)

This class is designed so that each session concludes with a "reflection" to be addressed in your journal. Your responses connect, summarize, and/or extend the day's lesson. Journal Responses (JRs) will be read several times during the quarter. Write honest, complete responses to each prompt. The expectation is you write clearly for five minutes using only one side of the sheet. You are encouraged to personalize the front of your journal for easy identification and make use of diagrams within to help illustrate your understanding. Entries will be graded for adherence to structure, completeness, and genuine attempts to answer each prompt.

Grading Scale

Barring unusual circumstances, the following table guides the quarter and semester grades:

Grade	A	A-	B+	B	B-	C+	C	C-	D	E
Minimum %	93%	90%	87%	83%	80%	77%	73%	70%	63%	< 60%

Required Material

Please acquire as many of the following supplies as soon as possible. Mr. Germanis has extra supplies if needed. Contact promptly if needed. **Spiral notebooks are discouraged.**

- Two (2) hardbound composition (lined) notebooks for Journal Reflections and Homework/Classwork.
- One (1) pocket folder to store class handouts, activities and group work.
- Several pencils with extra led AND ballpoint pens for JR's (ink required) AND an eraser.

While optional, it is *highly recommended* that you have a **scientific calculator** (TI-83+ or TI-84+ preferred) and basic drawing supplies (i.e. **ruler** with cm markings, **compass** and **protractor**).

Attendance Policy

Consistent, punctual attendance is essential to learning. Educational research suggests that students who attend class regularly and engage in class activities perform better on national benchmark assessments. The following guidelines are given to help improve your learning. Success in class depends greatly on student's punctuality and regularity of attendance.

1. Students tardy four (4) days will serve a lunch detention. Tardy students will not be allowed to enter class without a tardy slip. Additional tardiness will result in discipline according to school policy.
2. Classwork from a day on which you have an absence cannot be made up due to the nature of class tasks. Tests, quizzes, and projects must be completed the day of your return. Plan to complete a missed assessment for as soon as possible.
3. When you return from an absence, make sure that your absence is excused according to school policy.
4. You are responsible for knowing what you missed, this is not Mr. Germanis' job, information will be posted to www.mrgermanis.com/mths
5. Pre-arranged absences are allowed with the understanding that all assignments, activities, projects and assessments are to be submitted **on the day they are due for the rest of the class**. Please make arrangements before your departure.

Technology Policy

Educational technology can greatly increase student learning. However, the improper use of technology during class can be detrimental to student understanding. All mobile devices should be away and off, according to the MTHS policy book. Student use of technology must be teacher approved, including use of the SMART board, classroom computers, calculators, cell phones or other electronics.

Classroom Expectations

Our class time is essential for learning new materials and working with one another. Please adhere to the following guidelines to optimize our class time together.

1. **Be on time.** Students are expected to be in their assigned seats and ready to start class when the bell rings. The school tardy policy will be followed; see MTHS policy for additional guidelines for tardiness.
2. **Prepare all materials for class.** Each day you must have your Homework Notebook, Reflection Journal, one pen, pencil and eraser. You are accountable for obtaining all required material for class.
3. **Actively participate.** Our class depends heavily on the contribution of others in class, be involved in class discussions, activities and group work by helping others and asking questions.
4. **Respect the community.** Mount Tahoma High School has a culture designed for learning. Our classroom is also a community of mathematics learners, mistakes are growing opportunities, provide support to those who need your help. Your support matters!
5. **Hall Passes.** You will be given one hall pass each semester with five "punches" each. At the end of the semester, you may redeem each punch on your card for 2 extra credit "assignment" points each punch.

Assignments Policy (Entry Tasks, Journal Reflections and Homework)

Under no circumstances will a paper with nothing but answers be accepted!

1. Homework must have the following to be accepted: written in chronological order, date assigned (not due date), description of assignment (page, problem numbers, etc.), legible writing in color other than red, and an honest attempt at the work. Work completed on worksheets must have the proper date.
2. Work is "late" if submitted for scoring any time after papers have been checked or collected. **It is to your benefit to submit incomplete work rather than no work!**
3. All late work must be submitted by the date of the in-class unit test. No late work will be accepted during the last five (5) school days or a grading period. Consult the "Attendance Policy" section for details concerning excused and pre-arranged absences. Assignments will not be accepted from days you have an unexcused absence!
4. Every assignment problem must have a) the facts of the problem, b) an accompanying diagram used in the solution, c) all steps leading to the solution, including guess and check, d) a neat arrangement of your work, e) your BEST ATTEMPT, NO BLANKS!!! f) your own original work, failure to appropriately credit information, assistance of help is plagiarism!
5. Scoring for a paper will be deferred and marked *incomplete* if it reveals conceptual misunderstanding. No substantial deduction will be assessed to papers that are completed in a timely manner.
6. Errors are considered a normal part of extending one's knowledge. Remember if you are not making mistakes you aren't trying hard enough!

Extra Credit (EC): Appear for an "EC appointment" within the first five weeks of a quarter. You may schedule one per quarter. See the "EC appointment" form for details.

Assessment Policy

Since rapid feedback is essential for improved learning, a quiz may be made up within one day of its administration. For tests, one day is allowed for each day of excused absence up to a maximum of three days from the test date. This is to ensure fair testing.

To make up an assessment, you **MUST** fill out the "Missed Assessment" form after agreeing upon a test date. You must keep this appointment. **Failure to submit missed assessment form on your return to class nullifies your opportunity to make up the assessment.** Assessment dates are posted in advance on the class webpage, please prepare and make advanced arrangements, especially if you know you will miss an assessment.

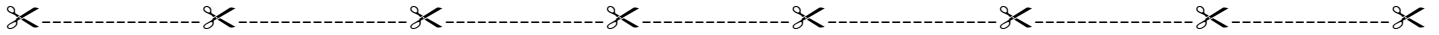
Leaving one's seat, using (or the ringing of) your cell phone, texting, talking to another student, or looking at another person's paper during an assessment results in a zero for all parties involved (yes, this means for allowing someone to see your paper!) and will be referred as appropriate. Cheating and other related transgressions are serious! In the real world, cheating and plagiarism lead to many months of court cases and expensive lawyer fees.

Assessments in this class are written to be *authentic* – representative of real world situations. Because of this, unless otherwise specified, you may use a 3x5 notecard, drawing materials and YOUR calculator. Similarly, the contents of each test will be specified on the class website several days before to help students. Occasionally, student' scores are not as high as expected. You can improve your score by performing "test corrections" (available only on chapter tests) at one of the posted sessions (at least one will be before school, and one after). From these sessions, you may gain up to 50% of the points missed on the test.

Sources of Assistance

Many sources are available for assistance including after school tutoring, asking a friend from class, asking another teacher, visiting the class webpage at www.mrgermanis.com/mths, or sending me an email. Additional resources are also available online, Khan academy and YouTube have many video tutorials. Algebra can be enjoyable and/or challenging. If at any time you become confused or frustrated, please seek assistance as soon as possible.

Please clip, sign and return this portion immediately to signify receiving the syllabus packet.



Student's Name: _____ Period: _____

Please check each section have reviewed in this packet to indicate that you have read and understand each class expectation. This must be signed by both you and your parent/guardian and returned:

- | | |
|---|--|
| <input type="checkbox"/> Course Syllabus (first page) | <input type="checkbox"/> Classroom Expectations |
| <input type="checkbox"/> Grading Scale | <input type="checkbox"/> Assignments Policy |
| <input type="checkbox"/> Required Material | <input type="checkbox"/> Assessment Policy |
| <input type="checkbox"/> Attendance Policy | <input type="checkbox"/> I have visited www.mrgermanis.com/mths . |

Signed: _____
Student Parent/Guardian

Parent/Guardian name(s): _____

Preferred Phone Number: _____

Preferred Email: _____

Preferred method of contact (circle one): Phone Email Other: _



Please visit the class website using the QR code. If you have any questions, please don't hesitate to call or email. My job is to help all students find success in school, particularly in math class. I am happy to answer any questions or concerns, even homework questions in the evenings.

INFORMATION FROM THE ALGEBRA SECTION]