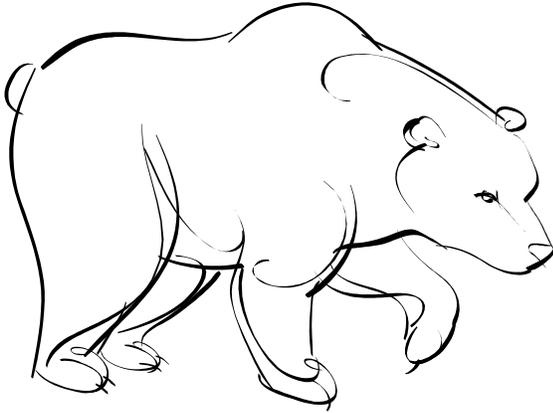


COURSE ORIENTATION FOR GEOMETRY IA/IB



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Dear Students, Parents, and Guardians:

This course orientation has been prepared to communicate the expectations, course content, coursework, and classroom policies for which you will be held accountable. Please read it carefully as the information included is the key to your success in a Geometry course. If you do not understand this course orientation sheet or have questions about the course, please see me personally.

COURSE DESCRIPTION

Geometry IA/IB is a two-semester class, open to students who have successfully completed Algebra I. This course presents a formal approach to the development of geometry skills and concepts necessary for students who plan to continue in Algebra II and other advanced college preparatory courses. It is designed to provide students with a comprehensive understanding of Euclidean geometry. A main goal of the course is to help students develop their skills in both deductive and inductive reasoning. Using a variety of tools, students will create their own geometric constructions and formulate the mathematics needed to describe relationships within the subject. Student attempts to explain the validity of their conjectures will lead to the development of proofs. Major course content will involve the concepts of congruence, similarity, and transformation.

WHAT IS THE CONTENT FOCUS?

The content emphasis of the class is the geometry content strand of the Common Core State Standards Initiative (<http://www.corestandards.org/Math/Content/HSG/introduction>). An overview of the content of the course is shown below.

Semester 1

- ✓ Unit 1: Vocabulary and Logic
- ✓ Unit 2: Basic Concepts of Geometry
- ✓ Unit 3: Parallel and Perpendicular Lines
- ✓ Unit 4: Transformations
- ✓ Unit 5: Triangle Theorems
- ✓ Unit 6: Triangle Congruency
- ✓ Unit 7: Similarity

Semester 2

- ✓ Unit 8: Trigonometry
- ✓ Unit 9: Quadrilaterals
- ✓ Unit 10: Areas in 2D
- ✓ Unit 11: Surface Area and Volume
- ✓ Unit 12: Circles
- ✓ Unit 13: Connections to Algebra 2
- ✓ Unit 14: Probability

WHAT ARE MATHEMATICAL PRACTICES?

The Standards for Mathematical Practice describe ways in which developing student practitioners of the discipline of mathematics increasingly ought to engage with the subject matter. The Standards for Mathematical Practice are:

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

WHAT MATERIALS WILL I NEED?

Textbook

The instructor will use a variety of material that will be provided to the student. The textbook the course uses is SpringBoard *Geometry* (2015). The purchase price for the book is \$50. The textbook will be stored in the classroom.

Other materials

In addition to the textbook, students will need a three-ring binder with lined and graph paper, several sharpened pencils (not pen), colored pens or pencils, highlighter, and a ruler or straightedge. It is highly recommended that students own a scientific calculator (recommended Texas Instruments TI 30XA) that they bring to class and use for homework assignments. If you are not able to purchase one, please contact me immediately to make other arrangements.

WHAT KIND OF WORK WILL I BE EXPECTED TO DO?

Homework

Students can expect to receive a homework assignment every day. Homework may be the extended practice on concepts that have been explained in class or may be about previewing the content that we will cover the following day in class. Completing homework in a timely manner helps you exercise self-discipline, effort, time-management, and persistence – all of which you'll need to succeed in life. It is an opportunity for you to gain confidence and proficiency in learning the material. Homework may involve completing in-class problem-solving activities, out of class assignments, preparing notes for the following day or reports.

In-class assignments

In-class assignments will take a variety of forms. Due to the complex nature of geometry, students will be engaged in hands-on assignments which allow them to discover geometric concepts; technology-based tasks using a variety of software; and “traditional” pencil-and-paper problem-solving involving abstract thinking. Many in-class assignments will be completed in groups, provided student behavior is acceptable, but student achievement will be graded on an individual basis. Group work is a privilege in this class. Students who do not behave appropriately or do not contribute to group assignments will be assigned tasks to be completed independently.

Grading Policy

The grading policy for the course is as follows: 65% assessments, 15% assignments (homework and in-class), 20% final exam.

Grading scale

A + = 98% - 100%	A = 93% - 97%	A - = 90% - 92%
B + = 88% - 89%	B = 83% - 87%	B - = 80% - 82%
C + = 78% - 79%	C = 73% - 77%	C - = 70% - 72%
D + = 68% - 69%	D = 63% - 67%	D - = 60% - 62%
	F = 0% - 59%	

WHAT KIND OF ASSESSMENTS WILL THERE BE?

Assessment of performance within Geometry will be on-going and cumulative. During each class, efforts will be made to gain insight into students' current mathematical understandings. These assessments may take the form of paper-and-pencil quizzes, oral explanations, summaries of activities and task completions. Also, there will be tests and quizzes that are cumulative in nature. That is, you will be responsible for knowing ALL material presented and presumed learned during the class.

Students are expected to take an assessment on the day it is given. Since assessments will be scheduled several days in advance, students will need to take the assessment on the day scheduled regardless of any absences near the test date. If a student is absent on assessment day, he/she will only be allowed to make up the assessment if the absence is excused. Furthermore, with an excused absence, the student must be prepared to take the assessment on the day he/she returns to class. Students that are truant or unexcused may not be allowed to take the assessment.

The final exam will be administered during finals week of the Fall and Spring semesters. The final exam is a cumulative exam, meaning the student will be responsible for knowing all of the material covered during the course of the semester.

IS THERE A RETAKE POLICY?

Students will have the opportunity to retake assessments (within one week of receiving the graded assessment). They are responsible for contacting the teacher to enquire if and when they can retake an assessment and what the requirements are to retake the assessment.

WHAT IS THE ATTENDANCE/TARDY POLICY?

Attendance is important and is directly related to your success. Students need to be in class on time each class day to maximize their educational resources. The district and school attendance/tardy policies will be enforced.

WHAT IF I AM INVOLVED IN EXTRA-CURRICULAR ACTIVITIES (SPORTS, CLUBS, ETC.)?

Those students participating in extra-curricular activities, who will miss all or a portion of a class period, are encouraged to turn in any assignments due that day before school, during brunch or lunch **prior** to leaving campus and pick up any work to be assigned that day. Homework assignments must be checked and shown to the teacher. Assessments given that day will be taken prior to leaving campus.

WHAT IS INFINITE CAMPUS?

The Hart District will be using Infinite Campus as its grade and attendance program in all of its schools. Infinite Campus makes it possible for parents to see their student's grades and their attendance regularly. Please make use of this program to stay informed on your student's current grades and their progress in the class. The Hart Districts website provides a link for parents to use <http://www.hartdistrict.org/index.php/campus/campus-portal> , or you can connect directly using: <https://campus.hartdistrict.org/campus/portal/hart.jsp>

WHAT IS ACADEMIC INTEGRITY?

Academic integrity means honesty and responsibility in scholarship. Students must obey rules of honest scholarship, which means that all academic work should result from an individual's own efforts. Academic dishonesty is a critical offense. It not only diminishes the quality of learning, but it also defrauds those who depend upon the integrity of this school's programs. Any student involved in academic dishonesty on any exam or assignment may be subject to GVHS's academic integrity policy.

DOES GOLDEN VALLEY OFFER INTERVENTION?

Golden Valley offers voluntary after school tutoring. Intervention schedules will be made available shortly after begin of the semester. This is a valuable resource for your students; please encourage them to attend regularly.

WHEN IS MY TEACHER AVAILABLE?

Teachers are available at various times during the week, before, during and after school. Please contact your teacher to find out when they are available.

Dear Student and Parent,

Please sign and return this certification indicating that you have read and understand the information regarding this course. Please keep the Course Orientation in your notebook for future reference.

The key to your child's success in this class is his/her commitment to being productive in class, practicing the concepts for homework, and studying for tests and quizzes. What your student gets out of this class will be directly linked to how much effort he/she puts into it.

I / We have read the course outline for Geometry IA/IB class and understand the expectations of this class. I understand that students and parents/guardians are welcome to contact my teacher at any time with questions, problems or concerns about procedures, progress, and expectations.

Student Name _____ Period _____

Student Signature _____

I am involved in the following extracurricular activities (clubs, sports, theater, choir):

Parent's / Guardian's Name(s) _____

Parent's / Guardian's Signatures(s) _____

Daytime phone _____ Cell phone _____

Evening phone _____

Email address _____

Comments: _____

