

Geometry/Trig

CB West Spring 2023

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The Course

This course is designed for students who have successfully completed Algebra 1. Geometry/Trig has three major sections: **The Foundation** (Units 1-2), **The Heart** (Units 3-5), and **The Application** (Units 6-8). In **The Foundation** students will learn about proper mathematical communication. Students will learn to make logical arguments and justify their rationale for problem solving steps. In **The Heart** students will focus on Triangles (Rules & Relationships, Similarity, Congruence, and Right Triangle Trigonometry). Finally, in **The Application**, students will apply concepts from throughout the course to Polygons, Quadrilaterals, and Circles. Students will conclude the course by reviewing Area & Perimeter of Plane Figures and studying Surface Area & Volume of Solids. There will be an emphasis on applying algebra to geometric figures and applying geometric concepts to real world scenarios.

What To Bring

A Calculator*

Pencil & Paper

3-Ring Binder

Student Laptop

Stylus

*A scientific calculator is sufficient for this course. **TI-30XIIS is recommended.**

Calculators that simplify square roots (such as TI-36X and TI-30XS) will not be permitted on assessments in which simplifying square roots is assessed.

Cell phones may not be used as calculators during class or on assessments.

A graphing calculator is helpful for subsequent courses, and a TI-83 or TI-84 is recommended.

A P O S I T I V E A T T I T U D E

The Rules

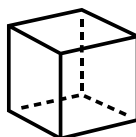
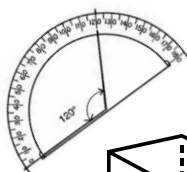
Please Be Respectful.
Please Work Hard.

Please refer to the CB West website (handbook) for all school rules.

Food/Drink



Please feel free to enjoy a beverage during class. Small snacks are permitted, provided you clean up your own trash. Thank You!



Other Electronics



Cell phones (and other personal electronics) must be kept (on *do not disturb* or off) in the hanging pouches or the charging station during class. Students using phones during class will receive a cell phone violation. If you need to check something or access your calendar, please ask permission.



Ear buds/headphones may not be worn during class.

Please Be Here... On Time



Attendance and participation in lessons are key ingredients for success. Please make every effort to be present. Of course, there may be times when you cannot attend (please take care of yourself!), but please reach out to make a plan for missed instruction/practice/assignments.

Students are expected to arrive promptly to class. A student is considered late to class if they are not in the room by the time the bell has stopped ringing. If a student is late to class, the school policy will be followed. All school policies regarding unexcused absences will also be followed.



Independent Practice

Daily Independent Practice is an extremely important component for success in this course. Practice problems will be assigned on most nights. These practice problems are intended to help students identify their strengths and weaknesses when working independently. This nightly practice will be crucial for success on formal assessments for each unit. Although assignments will not often be formally graded, the thorough completion of assignments is an expectation for this course. Assignments may be collected and graded randomly.



What's Next?

The next course in sequence in **Algebra 2/Trig**. The prerequisite grade for Algebra 2/Trig is at least a C- in Geometry/Trig. See the Program of Studies book for more information.



Communication
Kindness
Collaboration
Perseverance

Assessment & Grading

Grading Practices for Geometry/Trig: The goal of your grade is to communicate your understanding of and achievement with the content of Geometry/Trig, therefore the following grading practices will be followed throughout this course.

Final Course Grade

40% Marking Period 3 + 40% Marking Period 4 +
3% Core Assessment 1 + 3% Core Assessment 2 +
14% Multiple Choice Final Exam

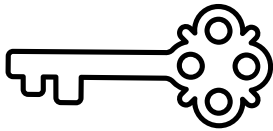


Marking Period Grades

90% Summative Assessment Category
10% Formative Assessment Category

Formative Assessment is key for learning and will occur continuously throughout the course. It is designed to provide feedback for the student, teacher, and parent during the learning process. Each

unit will have formal formative assessments and more informal formative assessment including: participation in lessons, question & answer, classwork, homework, graded problem sets, warmups, exit tickets, and reviews. It is imperative that the student and teacher communicate about student struggle and success to continue to improve. Through using lots of formative assessment and reflection, the hope is that the student will be well prepared to demonstrate their understanding on the summative assessment (end of unit Exam, Core Assessments, and Final Exam). Formal formatives (checks) may be retaken until proficiency is reached. Checks may be retaken/made up during Lunch & Learn.



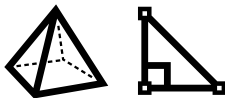
Formative Assessment

Summative Assessment

Summative Assessment is designed to provide a culminating demonstration of learning and to assess mastery of knowledge at the conclusion of the unit or course. Summative Assessments may include end of unit exams, core assessments, projects, and the final exam. Missed Unit Exams cannot be made up during Lunch & Learn. Instead, they must be made up in one sitting after school.

Students who complete all practice, reflect, and complete formative assessments to proficiency should be prepared for end of unit summative assessments. If the teacher/student feels that the grade on the summative assessment does not reflect what the student is capable of, the teacher may reach out to the student to complete a reassessment. Students will then complete an Additional Learning plan for the unit which will culminate in taking a new summative assessment (for a maximum of a 90%). The reassessment must take place in one sitting after school (not during Lunch & Learn). There will be deadlines for work completion and requirements on the Additional Learning plan. Reassessment is available on all formal formative assessments and on core assessments with no additional requirements. Reassessment is not available during the last week of the marking period.

Reassessment



Units of Study

Unit 1	Tools of Geometry
Unit 2	Logical Arguments & Line Relationships
Unit 3	Triangle Foundations & Similarity
Unit 4	Right Triangle Trigonometry
Unit 5	Congruent Triangles
Unit 6	Polygons & Quadrilaterals
Unit 7	Circles
Unit 8	Mixed Area, Surface Areas, and Volume

District Assessments

Core Assessments: Students will complete two core assessments (one at the end of unit 4 and one at the end of unit 6). Each core assessment involves solving application problems related to the unit. All students need to reach at least proficiency (70%) for successful completion of the course. If a student does not reach proficiency on an assessment, they will be asked to review and retake it.

Multiple Choice Final Exam:

Students will take a 50 question multiple choice exam as a final summative assessment at the conclusion of the course. Students will be provided with a review packet before the exam. Reassessment is not permitted on the final exam.

