



Course Description: The purpose of this course is to develop the geometric relationships and deductive strategies that can be used to solve a variety of real world and mathematical problems. The content will include Euclidean geometry of lines, planes, angles, triangles, construction and logic, and properties of circles, polygons, right triangle trigonometry, and reinforcement of algebraic concepts. Calculators and computers will serve as instructional tools in concept development. The Mathematical Practice Standards apply throughout this course and together with the content standards says that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Course Overview

Quarter	Unit	Topics Covered
1	Unit 1: Definitions, Segment and Angle Pair Relations	Writing precise definitions, using parallel lines with transversals and angle pair relationships to solve algebraic problems, constructions of parallel and perpendicular lines
1	Unit 2(A): Triangle Congruence and Proofs	Rigid motion Transformations such as: reflection, rotation, translation, and Non-rigid motion- dilation of a variety of geometric shapes. Classify and prove triangle congruence (SSS, SAS, ASA, AAS, HL)
DIA 1	15 Questions	Covers Unit 1 and 2A
2	Unit 2(B): Triangle Properties	Triangle inequality theorem, Hinge theorem, triangle midsegment proof, median concurrency proof
2	Unit 3: Similarity	Dilations, classify and prove triangle similarity (AA, SAS, SSS), use triangle similarity to solve problems
DIA 2	15 Questions	Covers Unit 2B and 3
2	Unit 4: Right Triangles and Trigonometry	Geometric mean, Pythagorean theorem applications, trigonometric ratios: sine, cosine, tangent and their applications, special right triangles and their applications, law of sine and cosine and their applications
SMT	Estimated 40 questions	Covers All Above Units (Midterm Summative)
3	Unit 5: Quadrilaterals and Coordinate Geometry	Classify and prove theorems about parallelograms, use coordinate plane to solve problems algebraically
DIA 3	15 Questions	Covers Unit 5
3	Unit 7: Two- Dimensional Measurements	Define and calculate density, area of circles, sectors, and regular polygons. Represent and interpret real world problems using geometric figures.
DIA 4	15 Questions	Covers Unit 7
3	Unit 8: Three-Dimensional Measurements	Identify the parts of three dimensional figures and calculate the volume. Identify and rotate two dimensional figures. Describe, interpret, and solve real world problems. Cavalieri's Principle
DIA 5	15 Questions	Covers Unit 8

4	Unit 9: Circles With and Without Coordinates	Define and prove circle similarity. Identify and apply parts of the circle, use theorems and postulates to solve problems. Convert degrees to radians. Write the equation of a circle. Construct shapes inscribed in a circle. Define, identify, and find tangent lines, parabolas, ellipses, and hyperbolas.
FSA	Estimated 60 Questions	Covers All Above Units
4	Unit 10: Algebra 2 Preparation	Graphing linear/ quadratics, key features of graphs, factoring, quadratic formula

Estimated FSA Window May 1st- May 11th

2 Day Exam: Day 1 NO CALCULATOR, Day 2 Calculator

Materials Required: Bring binder with dividers, loose leaf paper, pencils, dry erase markers, highlighter/colored pens DAILY. Other supplies may be needed throughout the year for projects. Scientific calculators are recommended but graphing calculators are acceptable; cell phone calculators are prohibited.

What is Inquiry-Based Learning and how does it affect my student?

Class is directed with the mindset of inquiry-based learning which refers to any pedagogy that replaces traditional lectures and textbooks with some form of student-centered activities. Teachers typically supply students with carefully crafted course notes consisting of a sequence of definitions, problems or theorems. Teachers then serve as mentors, by listening to the students, reading their work, and giving them minimal information they need to understand the defined concepts, solve the problems, or prove the theorems. **An old adage states: "Tell me and I will forget, show me and I will remember, involve me and I will understand."**

Technology: Phones will be used for educational purposes at specified times. All other times, phones should be put away so to not distract from your education. Failure to abide by rules will result in tiered consequences.

Assessments: I gather information for two distinct reasons: to make instructional decisions (diagnostic and formative assessment) and to communicate a summary of my students' achievement (summative assessment).

Formative: Bell ringers and quizzes are the most common; they allow me to assess the students' learning and provide feed-forward to the students. I am also able to evaluate the effectiveness of instruction and plan for future instruction. Formatives allow students to assess their mastery of the content and plan for their next steps.

******* Daily practice problems will be assigned as homework but will not be graded. Students should expect to spend about thirty minutes to an hour on assignments each night. Students will use these problems to self-assess and determine if tutoring is needed. These problems may later appear on bell ringers, quizzes and/or tests *******

Summative: Tests are the most common, but projects may be assigned. These are essential to report card grading. Students are given ONE class period to for the test; with exception of students with 504 and IEP extended time requirements.

Zeros Aren't Permitted (ZAP): The Cambridge program utilizes ZAP to help students stay on track and learn the materials. Lunch detentions will be given to complete missing assignments within one week of ZAP notification.

Submission and Make-Up Policies: Recognizing the importance of education, we encourage you to attend school daily. All student work is expected to be turned in by the assigned due date. Students who are absent from school on a known published due date must turn in assignments on the day they return to school. Students who are absent from class due to an approved school activity, but on campus during any part of the day, must turn in all work due prior to the end of the school day. Students will make up all work missed due to absences. For each day absent, a student has the equal number of days plus one to make-up any missed work. Assignments are expected to be completed by the specified due date, normally being the following day, **but always before that unit's summative**. No work will be accepted after the quarter has ended for work due in that quarter.

If you are absent: First, ask a student for any missed notes and refer to the assignment board to see if you need any additional materials.

Summative Make-Up: Complete it as soon as possible, in ONE sitting, must be before the next summative.

Retakes/Interventions: Students with grades lower than a “C” **MUST CORRECT** their assignments (graded formatives) and still must be turned in prior to test day.

Summative assessments: 1 retake per nine weeks and must meet requirements of:

- Students must complete and turn in all formative work prior to the summative. Each formative grade must also be a passing grade of 6/10 or higher in order to be eligible for a retake.
- Students are required to submit a plan of relearning and to provide evidence of that relearning before being permitted to retake a summative assessment.
- Each problem will be completed with error analysis/ notations of key concepts.
- Upon approval for reassessment, after the above requirements are met with satisfaction by the teacher, students will be able to retake the summative by the specified deadline

Grading Policy: The Volusia County grading policy is in effect and will be used in calculating final averages for each class. Teachers will use their own grading policy when grading formative work in preparation for summative papers.

You turn it in promptly, it will be graded promptly. Double check your score with the grade book score, kindly inform me if I made a mistake.

Volusia County Grading Scale:

Grade	Range	Quality Points	Description
A	90 - 100	4.0	Outstanding Progress/Mastery
B	80 - 89	3.0	Above Average Progress/Mastery
C	70 - 79	2.0	Proficiency
D	60 - 69	1.0	Passing
F	0 - 59	0	Failing and Requires Intervention

Honor Code: Be Honest! If caught cheating/copying on a formative, you earn a zero. If you are caught cheating on a summative, (this includes any phone usage while testing) you earn a zero with NO RETAKE option and a referral.

Deltona High School Discipline Policy: The following policy is for minor offenses.

1. Teacher Warning
2. Parent contact via e-mail or phone
3. Teacher Consequence
4. Discipline Referral

Tutoring:

I will have tutoring 1-2 times per week every week, it is the student's responsibility to look at the white board to see when I am available and plan their time/work accordingly. Students must sign in/out and state what was worked on during the tutoring time. Students attending a session must bring proof they have attempted the material in which they are struggling.

***** USE *Remind* to communicate with me and classmates and/or form study groups.

Per Deltona High School, all teachers will have office hours the last 15 minutes of lunch, Monday- Thursday. At least 1 time per week per Cambridge class there will be tutoring/makeups for the whole lunch period (see list below). National Honors Society (NHS) will have student tutors available; check with Mr. Chase in building 4 room 10.

AICE Lunch Tutoring Schedule:

Monday – AICE Social Science

Tuesday – AICE Science

Wednesday – AICE English

Thursday – AICE Mathematics

AICE Brain Sweat (ABS):

Along with lunch tutoring, the Cambridge program utilizes ABS for additional study time for all students. ABS on Monday will be for Social Science and English classes. ABS on Thursday will be for Science and Mathematics classes. The expectation is that students will participate as necessary per teacher discretions. These hours will be after-school from 2:45-3:45pm.

Restroom: EVERY single minute of class time counts. We will be working bell to bell and I do not want you to miss out on any information or activities, your classmates need you. If there is a medical issue I need to be informed about please email me as soon as possible. 10-10 Rule will be enforced.

Cambridge Grade, Attendance and Behavior Policy:

- Students must maintain an acceptable attendance and discipline record.
- Students' overall GPA, individual course grades and discipline/attendance records will be reviewed first semester and a determination will be made as to whether the student needs to be placed on academic or behavioral probation. After the first grading period following the probation, removal from the program will be considered if progress has not been made.
- Acceptance and continuance in the AICE program is based upon a level 3 or higher on the FSA and passage of the Algebra I EOC (if Algebra I has been taken.)
- To ensure a safe and conducive learning environment, students are required to follow the Volusia County Code of Conduct at all times.
- Students must comply with all Deltona High School behavior policies as well as individual classroom rules and procedures.
- Students' records will be reviewed from year to year to determine the continuance in AICE courses

Consequences of Cheating and Plagiarizing may include but are not limited to the following:

- Automatic zero for the assignment in question with no opportunity to make up that work
- Penalties may include but are not limited to the following:
 - Parental contact regarding the offense.
 - Loss of National Honor Society membership or National Honor Society eligibility.
 - Loss of Student Government position and membership.
 - Loss of Honor Graduate status.
 - Loss of other privileges, positions or opportunities requiring trustworthiness and responsibility including, but not limited to, parking on campus, field trips and other extracurricular activities.

Classroom Expectations:

- Be prompt, polite and prepared for the day's activities. Have your binder, notes, pencil, and calculator ready and be working on the bell ringer when the bell rings.
- Respect your teacher and fellow students. Listen when someone else has the floor, we all learn from each other!

Contact Me:

email ksmusick@volusia.k12.fl.us

OR

Remind: Remind is an exciting, safe and effective tool I will use to connect with my students and parents. Students and parents should join Remind to receive valuable information throughout the year. Please join by using this link: <https://www.remind.com/join/aicealg2>, texting @aicegeom to phone number 81010, or by entering the class code of aicegeom under "join a class" on the remind app.

OR

School counseling department: feel free to call and schedule a parent conference

I **BELIEVE** that **ALL** students have the ability to succeed with hard work and determination. Please come to class with a positive, ready to learn attitude. Always think "Is this the Deltona Way?"

Deltona High School 2018-2019 school goals:

1. Create a positive school culture
2. Effective communication between all stakeholders
3. Data driven emphasis on class instruction
4. Rigorous instruction

**Syllabus is subject to change to adapt to the ever-changing classroom*

WELCOME TO Geometry! I'm so excited to have you in my class this year; it's going to be a great year!!

Mrs. Musick

Please complete, sign, and return the following section to Mrs. Musick

I have read and understand the rules and requirements of Geometry Honors.

Name _____ Nickname _____

Grade _____ Alpha Code _____ Counselor _____

***Parent or Guardian Name _____

***Daytime Phone Number _____

Email of Parent or Legal Guardian:

One word to describe me is: _____ because _____

My feelings about math are: _____

My academic goals this year are: _____

My personal goals this year are: _____

When I graduate, I want to: _____

I have received a copy of Mrs. Musick's syllabus and classroom policies. I have shared it with my parents/guardians and will abide by those rules.

Student signature _____ Date _____

***Parent signature _____ Date _____