



ADVANCED HONORS GEOMETRY Abbott Lawrence Academy 2017-2018

<u>**Teacher:</u>** Alissa Marco Phone: (978) 946-0711 ext. 60208 (978)483-0449 Email: alissa.marco@lawrence.k12.ma.us</u> Office Hours @ ALA: Classroom: A208

Friday

Course Description:

Advanced Honors Geometry is closely aligned with the Common Core Standards and is designed to introduce students to Euclidean Geometry. Using a hands-on approach, students will explore the derivation of postulates, theorems, and axioms in order to gain a better understanding of the origin of geometric concepts. Students will challenge themselves as well as each other to use deductive reasoning practices as well as critical thinking skills to study and prove theorems through discovery. Students will continuously develop their critical thinking skills and use them as well as the appropriate mathematical terminology throughout the year to justify their reasoning and explain in depth not only how theorems and their properties are utilized, but also why they are true. Students will use theorems to continue to develop their knowledge of and ultimately master the application of the properties associated with congruency, dissections, areas, similarity, circles, coordinates, vectors, and optimization. They will work in collaboration with each other to learn and understand how using geometric software. During the second semester students will work together to create meaningful dynamic math projects for an annual mathematics fair that is hosted by Boston University. The Geometry curriculum will be extended across content to include the Physics curriculum to aid in the development of the projects.

<u>Materials:</u>

Please bring:

- Pencil and eraser
- Pens one black or blue and one other different color of your choosing
- Index Cards
- Highlighter
- Post-it Notes
- Spiral Notebook
- Notebook paper (college-ruled)



Materials that I will be providing: TI-Inspire CAS calculators, rulers, compasses, graph paper, and protractors Please note: The loss of property, calculator or charger, will result in a \$200 fee that must be paid. Any issues or concerns can be addressed with the Principal, Ms. Ciprich

TEXT BOOK: CME Project Geometry - Common Core

<u>Means of Evaluation</u>: The list below generally describes the assignments that each student will be expected to complete during the course. Guidelines for each assignment will be distributed individually.

| Assessments | (50%) |
|---------------------|--------|
| Notebooks/Classwork | (30%) |
| <u>Homework</u> | (20%) |
| Marking Period | (100%) |

Grading Scale:

90-100% = A80-89% = B70-79% = C65-69% = D0-64% = F

LATE POLICY

Late work will not be accepted for credit. If students find themselves in a situation where completing assignment is not feasible, please see Miss Marco to discuss and make alternative arrangements. Grades can be view on PowerSchool. Grades can be discussed with me afterschool during office hours, not during class.

- Assessments
 - Missed tests and major quizzes must be taken outside of class within a week of the absence.
- Classwork/Homework
 - o Missed classwork and homework must be turned in the next class period.

Extensions and Extenuating Circumstances

Please see me if you have an extenuating circumstances so we can create a plan of when you can make up work.

CLASSROOM EXPECTATION

- 1. Be kind.
- 2. Always be willing to try.
- 3. Don't give up when challenged.
- 4. One mic.
- 5. Find focus.

CLASS PROCEDURES

Upon entering the classroom, it is the responsibility of the student to:

- 1. Turn in homework and collect anything that has been graded
- 2. Get your binder and textbook, take your seat, and start your do now.
- 3. Write the content or language goal in your own words (or in mine!) above your Do Now
- 4. Complete your Do Now in your notebook
- 5. Focus and participate!

ABSENCES

Attendance is mandatory. Students accruing more than ten *unexcused* absences in one class will receive a failing grade. This does not include *excused* absences which are religious observances, approved campus activities or field trips, or a serious illness, medical / family emergency. Excused absences require official written documentation (such as a signed note from a parent, physician, or teacher).

Students are expected to arrive to each class on time. Students will be marked tardy if they are not in their seats by the time the bell rings. Students who arrive more than thirty minutes late to a class will be marked absent. Chronic lateness will negatively impact student grades. Three tardies equal one unexcused absence.

**If you are absent, check Edmodo! Always. Everyday.

You'll have two school days to make up any work you've missed. If you have a large amount of absences, please come see me and set up a time table to make up work!

UNIFORM

Students are to be in uniform at all times. The uniform consists of an ALA black or maroon polo, khakis, and closed-toed shoes. Other acceptable garments include crew neck sweaters, fleeces, cardigans, or ALA track jackets in black, maroon, navy, or white. These garments must be solid colored and should not have any designs or stripes. Polo shirts must always be worn underneath these garments. Hooded sweatshirts and denim are not allowed in any way. Student cannot wear these garments through their arms. Students who have any concerns regarding uniforms should reach out to any ALA teachers or administrators who will help resolve any issues discretely.

FOOD/DRINKS

Outside food and drink are allowed *to an extent*. Food and drink **must** be cleaned up promptly and should only be in reasonable quantities (no full meals and cannot be distracting to you, classmates, or me).

ACCEPTABLE USE OF TECHNOLOGY

Students should conduct themselves professionally at all times. Each teacher will determine when technology may be used in the classroom. Any inappropriate use of laptops or phones (such as texting, internet browsing, Facebook/ Twitter, etc) will negatively impact student grades. Teachers reserve the right to confiscate laptops/phones until the end of the period. If further issues arise, administration will confiscate phones for the rest of the day and notify parents.

OFFICE HOURS

Teachers are available to help students in their classrooms each day until 3:15 pm. In addition, teachers hold office hours from 2:45 - 4:00 pm once a week so that students can discuss their work in the course and ask questions. Students are encouraged to attend office hours to seek extra support. If a student cannot make a teacher's scheduled office hours, they should contact them directly to set up a meeting.

GUIDANCE POLICY

Students are required to set up appointments to meet during the school day with Ms. Tetrault, the guidance counselor. She also holds drop-in times before and after school and during Advisory. In an emergency, a teacher can refer students immediately to the guidance office.

HALL PASSES

Students should obtain a Hall Pass from a teacher to use the restroom or travel within ALA. Students are also required to sign-in/out when leaving and re-entering a classroom. A separate written pass is required to go to the nurse. Students cannot leave any given class during the first or final five minutes of a 45 or 60-minute class or the first and final ten minutes of a 90-minute class. This is known as the 5/5 rule for 45/60-minute classes and the 10/10 rule for 90-minute classes.

ACADEMIC DISHONESTY

Students are expected to maintain the highest level of academic integrity. When using ideas, words, and short passages from other people's writing, students are required to acknowledge the source. Failure to acknowledge the contribution of others is considered plagiarism. Submitting plagiarized work, failing to properly cite or fabricating sources, and any other academic dishonesty will not be tolerated and will automatically result in a failing grade for the given assignment and further disciplinary action. Students will not be allowed to make up any plagiarized work for credit. Plagiarism includes copying directly from the internet, a book or article, or another student's work (with or without their permission). In order to avoid these issues, students are encouraged to speak with any teacher or administrator if they have any questions (no matter how small) about their work or citing sources.

Remember that to be successful in math, practice is so important! If you **copy your classmate's homework or classwork, not only are you plagiarizing their work but you are also harming yourself! Assessments are worth the majority of your grade and homework is practice for that!

SPECIAL NEEDS

All students who have special needs please let me know as soon as possible.

ELECTRONICS POLICY

All electronics should be kept away unless being used for educational purposes – please be honest and respectful. Remember to be successful you'll have to pay attention; no matter how fun phones are!

TEACHER'S MESSAGE:

"It is our choices, Harry, that show what we truly are, far more than our abilities." Albus Dumbledore