

Geometry Syllabus

Haynes Academy for Advanced Studies

Mrs. Rebecca Brennan

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Both students and parents/guardians should feel free to contact Mrs. Brennan with any questions or concerns. I attempt to return all emails and phone calls within 24 hours.

Topics

Module 1 - Congruence, Proof, and Constructions

Topic A - Basic Construction

Topic B - Unknown Angles

Topic C - Transformations/Rigid Motions

Topic D - Congruence

Topic E - Proving Properties of Geometric Figures

Topic F - Advanced Construction

Topic G - Axiomatic Systems

Module 2 - Similarity, Proof, and Trigonometry

Topic A - Scale Drawings

Topic B - Dilations

Topic C - Similarity and Dilations

Topic D - Applying Similarity to Right Triangles

Topic E - Trigonometry

Module 3 - Extending to Three Dimensions

Topic A - Area

Topic B - Volume

Module 4 - Connecting Algebra and Geometry through Coordinates

Topic A - Rectangular and Triangular Regions Defined by Inequalities

Topic B - Perpendicular and Parallel Lines in the Cartesian Plane

Topic C - Perimeter and Areas of Polygonal Regions in the Cartesian Plane

Topic D - Partitioning and Extending Segments and Parameterization of Lines

Module 5 - Circles with and without Coordinates

Topic A - Central and Inscribed Angles

Topic B - Arcs and Sectors

Topic C - Secants and Tangents

Topic D - Equations for Circles and their Tangents

Topic E - Cyclic Quadrilateral and Ptolemy's Theorem

Supplies

Personal Supplies

1. Eureka Geometry textbook (should be brought to class everyday)
2. Pencils (Assignments and assessments MUST be done NEATLY in PENCIL)
3. Compass (Because you will use it often, get a good quality compass. Metal compass are better than plastic. Consider one with a retractable tip or using a case to protect your compass.)
4. 6 inch ruler (or one that has holes and fits in your binder)
5. TI-30 Calculator (NOT multiview) You will need your calculator from last year, but not daily.
6. Three ring binder (1" - 1 ½")
7. Blue pens (This will be used to check and correct homework and assessments)

Classroom Supplies

1. 1 roll of paper towels or 1 bottle of Germ-X (or similar brand)
2. 1 pack of loose leaf
3. 2 or more expo markers (colors preferred)
4. 1 pack pencils
5. 1 pack post-it notes
6. 1 pack index cards (regular size, white, lined)
7. 1 pack disinfecting wipes or 1 pack kleenex

Grading Policy and Assessments:

Jefferson Parish Public School System Guidelines and Haynes Academy for Advanced Studies Academy Handbook will be followed. Students are expected to be on-task during classroom time. If a topic is not understood in the allotted class time, the student should seek assistance outside of class, in person or via email. Mrs. Brennan will update the wiki frequently with homework and assessments. It is the student's responsibility to keep track of homework assignments and announcements made in class.

Major and minor assessments will be announced in class and posted on the wiki. Approximately one assessment will be given each week. It is the policy of the Math Department to not send tests home. All tests are corrected and all questions are answered in class. If a parent or guardian would like to see a test, please contact Mrs. Brennan via email so arrangements can be made. There will be both a final exam and and EOC (LEAP 2025). If policy changes are necessary, announcements will be made on the wiki.

One homework grade will be given per week that will consist of one or more homework assignments. One homework quiz grade will be given per week that will consist of one or more homework quizzes/exit tickets. NOTE: Homework answers are available online and may be provided in class or on the wiki, so it imperative that work be shown on homework. If no work is shown, credit will not be given. Homework quizzes will not be announced and should be expected daily. These quizzes will reflect homework problems and are a good indication of student understanding and retention.

Students should pay attention during class and keep binders organized. Students should review notes daily and learn new vocabulary and notes for easy retention. Student participation includes both participation in class discussions and asking questions when confused.

Extra Help

Mrs. Brennan is available for extra help during lunch when I don't have duty (preferred) and immediately after school (if the student has reliable transportation home prior to 4pm). Note that most answers to homework problems are available on EngageNY. (NOTE: Because of this, all homework/classwork/assessments should include shown work).

Absences

If you are absent, it is your responsibility to see Mrs. Brennan outside of class (ie. at lunch or before or after school) on the day that you return to school to get the notes you missed and any assignments that aren't on the wiki. Assignments on the wiki are available even if you are absent, so you are expected to check the wiki frequently during your absence. If you miss a test or quiz while you are absent, you should be prepared to make up the test or quiz in as many days as you were absent. If there is a test or quiz assigned on the day that you return from an absence, you should be prepared to take the test or quiz unless the absence was longer than a few days or you have made arrangement with Mrs. Brennan via email before your return. If you are confused by the material you missed, you should contact Mrs. Brennan to set up a time for extra help. You are welcome to contact Mrs. Brennan with any questions or concerns during or after your absence. Students are expected to turn in missed homework and take missed assignments in as many days as you were absent.

Cell Phones

Cell phones must be turned off and turned in when entering the classroom to prevent distraction. Students may pick up their cell phones at the end of class when leaving the class at the end of the period. Consequences will be given for those not adhering to this policy. If a cell phone is confiscated from a student due to improper use or at an improper time, it will be turned in to the office and a parent will be required to pick it up from the office. If you have a smart watch or other communication device, it must be enclosed in a plastic, hard, transparent pencil case and wrapped with a rubber band for the duration of the class. This can be left on your desk during class time, but no access will be allowed. If you don't have a container, you may borrow one Mrs. Brennan.

Cheating and Plagiarism

Cheating and plagiarism will not be tolerated. If cheating or plagiarism is SUSPECTED, then the parents/guardians will be notified about the behavior of their student. If cheating or plagiarism is APPARENT, Haynes discipline policies will be followed. *Copying homework from another student is considered cheating.*

Classroom Expectations

1. Observe all school rules as listed in the student handbook.
2. Respect people and property in the room.
3. Follow directions of teacher the first time they are given.
4. Bring all necessary books, materials, and supplies to class every day including pencils since all submitted work must be in pencil.
5. Raise your hand for permission to speak or leave your seat, and do so only if you have been granted permission to do so.

Consequences for improper behavior:

1. Verbal warning
2. Sign the Discipline Book and Student/Teacher conference
3. Sign the Discipline Book and contact Parent.
4. Sign the Discipline Book and Lunch Detention in Mrs. Brennan's room
5. Sign the Discipline Book and School Lunch Detention
6. Office referral (documented in Discipline Book)

I have read this syllabus and understand the expectations of the class.

Student Name (PRINT)

Date

Student Signature

Date

Parent/Guardian Signature

Date

Parent Preferred Phone #:

Parent Preferred Email:
