

GEOMETRY HONORS

Mr. Louro

Course Description:

The Honors Geometry course is designed for grade 9 & 10 students who have completed the Honors Algebra I curriculum as Algebra is integrated throughout this course. This course includes the basic structure of Euclidean Geometry and the development of formal proofs. Examples of solid geometry are integrated throughout the course. Practical applications, including algebraic methods, are applied to problem-solving. Topics include development of the logical study of Euclidean Geometry through the use of axioms, postulates, and theorems as they relate to points, lines, planes, polygons, prisms, angles, circles, and arcs; congruence and properties of polygons, constructions, congruent triangles, parallel and perpendicular lines, the Pythagorean Theorem, similar polygons, perimeter, circumference, area, surface area, total area, volume.

Course Objectives:

1. To express mathematical ideas coherently both verbally and in writing
2. To explore the connections that, exist within mathematics disciplines.
3. To develop critical thinking and problem solving skills.
4. To demonstrate understanding of more advanced math concepts

Course Outline:

- A. Chapter 1: Basic Ideas of Geometry
- B. Chapter 2: Introduction to Proof
- C. Chapter 3: Parallel Lines and Planes
- D. Chapter 4: Congruent Triangles
- E. Chapter 5: Using Congruent Triangles
- F. Chapter 6: Quadrilaterals
- G. Chapter 7: Similarity

H. Chapter 8: Right Triangle Trigonometry

I. Chapter 9: Transformations

J. Chapter 10: Circles

K. Chapter 11: Areas of Polygons

L. Chapter 12: Surface Area & Volume

Classroom Procedures and Expectations

All students are required to arrive to class on time and ready to work. This includes having all necessary materials (book, homework, notebook, pen, etc.).

In Case of Fire Drill

Move in an orderly and quiet manner to the front of the room and follow the posted evacuation route. Students will report to their designated homeroom area.

Homework / Classwork Policy

Students are expected to complete ALL homework and classwork assignments. Homework or classwork may be collected on a random basis and graded. It is the student's responsibility to make up all missed homework and classwork assignments. Assignments that are not legible WILL NOT BE GRADED. Students should have any homework questions ready at the beginning of each class.

Quizzes

Most quizzes will be unannounced and will be identical to the previous night's homework. Announced quizzes will be more difficult and require studying.

Exams

All exams will be announced one week in advance whenever possible. Students are required to take exams on the day they are scheduled only excused absences will be allowed a make-up exam. It is the responsibility of each student to make arrangements with the teacher for make-up exams. Students absent the day before an exam will be required to take the exam as scheduled.

Tardy Students

Students are expected to enter the classroom without disruption to the teacher or other students. DO NOT INTERRUPT ANYONE. I am aware you may not know what we are doing I will get you caught up as soon as possible. Excessive unexcused tardiness will be handled as per the student handbook.

Grievances

It is the right of every student to file a grievance if they feel they have been given the wrong grade.

STEP 1: Circle the problem on your paper

STEP 2: Write a brief explanation of the problem or mistake

STEP 3: Put paper in class folder

Any attempts to file a verbal grievance with the teacher, will automatically receive NO FURTHER CONSIDERATION. The teacher's ruling is final.

Extra Help

Extra help will be available after school and during all honors geometry classes as well as my SLP. Students must give teacher prior notice if they want to stay after school for help.

Make-Up Work Policy

Student's that have been absent must report to the teacher on their first day back to school and make arrangements to complete all make-up work.

Grading System

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| Tests | 50% |
| Quizzes | 35% |
| Homework | 15% |

Student Portfolio

All students will create a portfolio over the course of each semester which will be used to determine their final exam grade.