Geometry

Sinxay Boualouang
sboualouang@ems-isd.net

Conference Period: 6th period
Tutoring Opportunities: 4:30 pm - 5:00 pm, last 20 minutes of 4th period lunch (Tuesday - Thursday).

Class Materials:

- Textbooks
- Binder
- Note book
- Pencil
- Markers (colors)
- https://www.pearsonrealize.com/community/home

Access to Canvas and Office365 tools is available to students through our Single Sign-on Portal (SSO). Students receive their SSO login during enrollment.

Course Description:

In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I, create formal constructions using a straight edge and compass, use deductive reasoning to justify, prove and apply theorems about geometric figures, use their proportional reasoning skills to prove and apply theorems and solve problems, and apply theorems about circles to determine relationships between special segments and angles in circles. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education.

Course Goals:
Students who complete this course successfully will be able to:
• investigate, identify and apply geometric theorems, properties and relationships using a variety of tools
• derive and implement varying formulas including distance, midpoint, slope, and different forms of lines
• investigate, identify and apply theorems, properties and relationships about angles, triangles and other shapes using variety of tools
• investigate, identify and apply theorems, properties and relationships regarding similarity, congruency and ratios using a variety of tools
• investigate, identify and apply theorems, properties and relationships regarding two and three dimensional figures

Student Evaluation:
The grading system for this course is as follows:
• Grade averaged 60% Major 40% Minor
• Major grades – tests (including District Common Assessments, six weeks assessments, projects, final essays, research papers, presentations); minimum three per six weeks
• Minor grades – quizzes, daily assignments, journals; minimum four per six weeks
• Semester exams will count 1/7 of the semester grade
• A letter system (S, N, U) is used to report a student’s conduct based on proper/responsive conduct and citizenship
• Per Board Policy E1A (LOCAL), “The District shall permit a student who meets the criteria detailed in the grading guidelines a reasonable opportunity to redo an assignment or retake a test for which the student received a failing grade. This policy applies only to initial identified major grades and does not apply to daily assignments, quizzes, six-week test, and semester final examinations. Upon reteach and retest, the new test, project, etc. recorded will be a high score of 70%.

Assignments, exams, expectations outside of the classroom:
The student will be given time to work on and complete assignments in class, so if he/she is making efficient use of this time, there will be minimal homework in this course.

Attendance/Tardy Policy/Make-Up Work:
Late Work

· Late work is defined as any assignment not turned in on the assigned date unless the date is altered by the teacher at his/her discretion. On-level classes at the high school level and Pre-AP at the middle school level:

· An assignment may be turned in under the following guidelines:

· 1 school day late – maximum score is 85% of earned grade

· 2 school days late – maximum score is 70% of earned grade

· 3 school days late – maximum score of 60% of earned grade

· No late work will be accepted after 3 school business days and a zero is recorded in the grade book.
Make-up work

All students shall be allowed to makeup work when they are absent from class.

· Students shall have a time equal to days absent from class plus one day to complete all missed assignments.

· Under extenuating circumstances such as long-term illness or family emergencies, teachers will work with the student to determine the due dates for make-up work missed. Teachers may reduce the length or number of assignments as long as the appropriate TEKS are covered.

· Students returning to class following an absence are responsible for discussing with the teacher what is to be completed and date for such completion, along with securing necessary materials and notes.

· Make-up work, including tests, at teacher discretion may be an alternate version of the original work (including online) as long as it is at the same level of cognition and covers the identical learning target(s).

· Make-up tests should be administered before or after school to prevent a student from missing additional class time. At a teacher’s discretion, tests may be made up during the school day.

· Work, including tests, assigned prior to an absence may be due on the first return day. See the late work policy elsewhere in this document for make-up work not turned in when due dates have been set.

· This requirement does not nullify or replace any established campus procedures in place related to “no zero procedures.

Classroom Expectations:
Follow classroom rules
Stay on assigned tasks.
Complete and turn in assignments on time.
In your seat and be ready to learn when bell rings.

Preliminary Schedule of Topics, Readings, and Assignments

· Unit 1: Logical Argument and Constructions: Proof & Congruence

· Unit 2: Logical Argument and Constructions: Lines & Triangles

· Unit 3: Logical Argument and Constructions: Polygons

· Unit 4: Coordinate and Transformational Geometry & Similarity, Proof, and Trigonometry
· Unit 5: Circles

· Unit 6: Two-Dimensional and Three-Dimensional Figures & Experimental and Theoretical Probability

**Academic Integrity:**
Academic integrity values the work of individuals regardless if it is another student’s work, a researcher, or author. The pursuit of learning requires each student to be responsible for his or her academic work. Academic dishonesty is not tolerated in our schools. Academic dishonesty, includes cheating, copying the work of another student, plagiarism, and unauthorized communication between students during an examination. The determination that a student has engaged in academic dishonesty shall be based on the judgment of the classroom teacher or other supervising professional employee and considers written materials, observation, or information from students. Students found to have engaged in academic dishonesty shall be subject to disciplinary and/or academic penalties. The teacher and campus administrator shall jointly determine such action.