Geometry

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Course Description

Geometry emphasizes congruence, similarity, right triangle trigonometry, coordinate geometry, and modeling geometry concepts in real life situations. This course also introduces students to geometric constructions. Student extend their understanding of surface area and volume from previous grade levels by using unit analysis and the coordinate plane to solve problems in the real world. Finally, this course further develops student use of visual representations to understand and compute probabilities.

Throughout the course, students build upon previous knowledge to justify relationships, reason mathematically, and solve problems. Modeling and real-world problems are introduced throughout the course with standards written to encourage the use of math to answer problems students will encounter in life.

Cumulative benchmark tests will be given 3 times per year to assess progress towards the End of Course test given during the 4th quarter. The End of Course test will count as 15% of the Semester 2 grade.

Tennessee State Curriculum Standards

https://bestforall-cms.tnedu.gov/sites/default/files/documents/Geometry_9-24-21.pdf

Units of Study

- Foundations of Geometry
- Parallel and Perpendicular Lines
- Transformations
- Triangle Congruence
- Relationships in Triangles
- Quadrilaterals and Other Polygons
- Similarity
- Right Triangles and Trigonometry
- Coordinate Geometry
- Circles
- Two- and Three-Dimensional Models
- Probability

Course Textbook

envision Geometry. Savvas Learning Company, 2024.
https://savvasrealize.com/#/

Course Materials/Supply List

- Notebook paper
- Graph paper
- Pencils with erasers
- Color Pencils
- Compass
- Protractor

- TI-83 or TI-84 Graphing Calculator – I am most familiar and am best able to help students with this type of calculator. If students choose to use another calculator, it must be approved for use on the Tennessee End of Course Exam and the ACT. Students who purchase other calculators are responsible for learning how to use the calculators on their own.
- Optional but appreciated: 1 box of tissues; Expo dry erase markers

Classroom Expectations

- Bring all needed materials to class (fully charged Chromebook, notebook, pencil, calculator).
- Be **in your seat** and ready to begin **when the bell rings.**
- Clean up after yourself. Put classroom materials back where they belong, throw away your trash, and take all of your belongings with you when you leave.
- Remain in your seats at the end of class until dismissed by the teacher.
- **Cell Phones:** Silenced and placed in assigned pocket at the beginning of each class.

- Respect peers and teacher, and their property.
- Follow all school rules.

Canvas LMS Expectations

All assignments for each week will be posted in Canvas and will be available each Monday. Students are expected to check Canvas each week/day to make themselves aware of daily assignments and upcoming quizzes and tests.

Grading

Grades are calculated by dividing points earned by points assigned. Most homework assignments are 10 points, quizzes are typically around 30 points, and tests are 100 points.

Check PowerSchool regularly for current grades.

University School Grading Scale

Total Points	Grade
100 – 90	**A**
89 - 80	**B**
79 - 70	**C**
69 - 60	**D**
59 - Below	**F**

Missing/Late Work Policy

Students will have 2 days to complete graded homework assignments. After the 2 days, students may turn in the assignment for a late grade: 10% deduction per day up to 4 days. After the 4th late day, the zero is permanent. For missed work due to absences, University School policy is one extra day per missed day plus one more day.

Testing Days

The official days for major tests for math classes are Wednesday and Friday. This does not mean tests are given every Wednesday and Friday. Occasionally, major tests will be given on other days provided students are not being tested in other classes.

Extra Help

Students may come to my room from 12:00 – 12:30 for extra help. If this is during their lunchtime, they are allowed to switch their lunch to 12:30 – 1:00.

Academic Integrity

Plagiarism/Cheating

University School is responsible for maintaining academic integrity for all of its students. It is the responsibility of the students to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Infractions of academic integrity include but are not limited to:

- Cheating (using or attempting to use any information that the student knows is unauthorized)
- Fabrication (unauthorized falsification or invention of information in an academic assignment)
- Plagiarism (representing the words or ideas of another as one's own ideas, including copying from another person's paper and using Artificial Intelligence sites (AI) without proper citations
- Facilitating infractions of academic integrity (Helping or attempting to help another commit an infraction of academic integrity)

The above policy includes copying homework, lab papers, workbooks, and tests materials. It also includes using the on-line translators in world languages. Students who facilitate cheating will receive the same consequences as those who copy the work.

Students caught plagiarizing/cheating will be addressed by teacher and/or school administration. Incidents of cheating or plagiarism could result in a disciplinary referral and loss of credit for the given assignment. Repeat offenses may result in additional disciplinary action at the discretion of the administration.