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COCKE COUNTY HIGH SCHOOL

COURSE SYLLABUS

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COURSE NAME: Geometry

SEMESTER AND YEAR: Fall 2025

INSTRUCTOR: Mr. Tony Barnes, Phone **(423) 623-8718**
E-mail address: **Barnest@mail.cocke.k12.tn.us**

Tutoring: Available by appointment generally between 7:50-8:15 and 3:15 – 3:45 school days.

REQUIRED TEXTBOOK: Geometry by Savvas available online

Calculator:A TI-84-CE, TI-84, TI-84+ or TI Silver Edition is recommended for this course. Calculators can be borrowed while in class. Free software downloads available on mobile devices for home use. Also, Desmos.com is used on state tests and in our classroom setting.

COURSE PREREQUISITE: Algebra 1

COURSE DESCRIPTION: Geometry emphasizes similarity, right triangle trigonometry, congruence, and modeling geometry concepts in real life situations. Students build upon previous knowledge of similarity, congruence, and triangles to prove theorems and reason mathematically. This course also introduces students to geometric constructions and circles. Students show a progression of mastery and understanding of the use and application of surface area and volume. The major work of Geometry is from the following domains and clusters: Congruence o Understand congruence in terms of rigid motions. o Prove geometric theorems. Similarity, Right Triangles, and Trigonometry o Understand similarity in terms of similarity transformations. o Prove theorems involving similarity. o Define trigonometric ratios and solve problems involving triangles. Expressing Geometric Properties with Equations o Use coordinates to prove simple geometric theorems algebraically. Modeling with Geometry o Apply geometric concepts in modeling situations. Supporting work is from the following domains and clusters: Congruence o Experiment with transformations in the plane. o Make geometric constructions. Circles o Understand and apply theorems about circles. o Find areas of sectors of circles. Expressing Geometric Properties with Equations o Translate between the geometric description and the equation for a circle. Geometric Measurement and Dimension o Explain volume and surface area formulas and use them to solve problems.

COURSE SUPPLIES:
Paper
Pencils
Dry erase marker (1)
Calculator (see above)

INSTRUCTIONAL AND EVALUATION METHOD:
90 - 100% A
80 - 89% B
70 – 79% C
60 – 69% D
 0 – 59% F

In-Class Exams counts 50 points
Quizzes count 30 points

Homework and Classwork are typically 10 points each
Grades will be based from percentage of total points

Attendance and a well organized notebook are vital for successful completion of the course!

There will be in-class exams and a comprehensive final exam(EOC). If an in-class exam is missed, the student must see the teacher on the student's 1st day back in class to schedule a date to make-up the exam.

The exam should be made up within one week of the student's return to school. If a student fails to schedule a makeup exam, the exam score becomes a zero.

Quizzes will be given throughout the semester. Quizzes can be homework assignments or in-class pop quizzes. There will not be a makeup for in-class pop quizzes, but they will not count against the student if they are absent. Students will have 3 days to turn in a homework quiz if the student is absent on the date that the quiz was assigned. If a student is absent on the day that a homework quiz is due then it is to be turned in on the day that the student returns. Regular attendance is vital to maintain a good class average.

After each test, a make-up test will be offered if the student completes a rework of the chapter test or tutoring. The rework consists of reworking each problem that you did not receive full credit for on the test. To do a rework, you will explain why you missed the problem on the test and work the problem correctly. You will have one week to complete a rework of the test. During this time, you may stay for tutoring to receive help or work together in groups.

The student will be given the opportunity to retake any chapter test until they receive a passing grade. The rework must be completely and correctly done (tutoring is encouraged) before a retake will be given.

All reworks and retakes must be completed by midterm/end of grading period whichever comes first. Work given before midterm must be completed by midterm, work given after must be completed by the end of nine weeks.

I am available for tutoring on most days before and after school. If I am not available we can arrange tutoring with another math teacher. Extra practice can be found on the Savvas website at Savvas.com

CLASSROOM RULES:

- **Be prepared and in your seat before the bell rings. (Pencil sharpened, calculator and Chromebook ready, etc.)**
- **Remain in seats until the bell rings. No clumping at the door.**
- **When the intercom comes on, be still and quiet**
- **Follow the school's hall pass policy**
- **Stay with class during drills**
- **Respect others, their property and the classroom. (the smartboard is off limits without permission)**
- **Sit only at the student desks/tables**
- **The intercom phone and the thermostat are for teacher use only**
- **Food or drinks in the classroom is a privilege that will be stopped if students do not pick up after themselves. (Drinks permitted only with lids, unless bottles are left in the room)**

Feel free to contact me with any questions.

Tony Barnes
barnest@cocke.k12.tn.us

PLEASE SIGN AND RETURN TO MR BARNES:

Student Signature

- I understand the required materials to bring to class everyday
- I understand the class description
- I understand the expectations listed above
- I understand the grading policy
- I understand and will follow the class rules

_____

Student name

_____

Student signature

Parent/Guardian Signature

- I will help supply my child with the needed materials
- I understand the class description
- I understand the expectation of my child in class
- I understand how my child will be graded
- I understand the class rules my child will need to follow

_____

Parent or Guardian name

_____

Parent or Guardian signature

Parent/Guardian Contact Information

Name:

Address:

Phone (that you can be reached at during the day or I can leave a message):

Email Address: