**Course Syllabus**



**Course: Geometry: Concepts and Connections**

**Teacher:** Mrs**.** LaKiesha Farmer **Teacher Phone#:** 706-426-1979

**Email:** [farmela@boe.richmond.k12.ga.us](mailto:farmela@boe.richmond.k12.ga.us) **School Phone#:** 706-796-4992

**Room:** 104

**Prerequisite:** Successfully completed Algebra 1: Concepts and Connections

**Supplies:** Composition notebook

Pen/pencil

**Course Description:**

This Geometry course is designed for students to explore the fundamental concepts and applications of geometric principles. Throughout the course, students will engage with various topics, including:

* **Basic Geometric Terms and Concepts:** Students will learn about points, lines, angles, surfaces, and solids, as well as the relationships between these elements.
* **Measurement and Properties:** The course will cover the measurement of angles, perimeters, areas, and volumes of different shapes, emphasizing the formulas and techniques used in calculations.
* **Transformations:** Students will investigate geometric transformations such as translations, rotations, reflections, and dilations, and understand their properties and applications.
* **Congruence and Similarity:** The concepts of congruent and similar figures will be explored, along with the theorems and postulates related to triangles and other polygons.
* **Coordinate Geometry:** The course will introduce students to the coordinate plane, allowing them to represent geometric figures algebraically and analyze their properties.
* **Real-World Applications:** Students will apply geometric concepts to solve real-world problems, integrating critical thinking and reasoning skills.
* **Proof and Reasoning:** The course will introduce basic geometric proofs, helping students develop logical reasoning and argumentation skills.

This course aims to foster a deep understanding of geometric principles and their relevance in various fields, preparing students for advanced mathematics and everyday life applications. Active participation, collaboration, and problem-solving will be emphasized, creating an engaging and supportive learning environment.

**Expectations and Goals:**

Students are expected to be prepared, organized, and engage in their learning of mathematical concepts. This entails coming to class with all necessary materials and resources, staying on task, and actively participating in whole group and small group settings, as well as individual work. Assignments must be completed on time. To accomplish this goal, students must give maximum effort on all assignments and show all work to gain a better understanding of the math processes involved in working each problem. This method will prove beneficial in future course work.

**Grades:** Quizzes, most assignments, and projects will be uploaded into Infinite Campus, however, tests will be completed in class. Students will earn points for the following:

**Minor Assignments 60%**

* Assignments
* Quizzes

**Major Assignments 40%**

* Tests
* Projects

**Absent:** If you are absent, it is the student’s responsibility to go into Canvas to learn what he or she must make up. This work must be completed within three days of returning to class, unless other arrangements has been given by the teacher which must be in writing. All tests and quizzes must be taken before graded quizzes or tests are returned. Failure to do so will result in a zero, unless other arrangements has been made. Unexcused absences on the due Ed dates of the tests, quizzes, projects, and presentations should be completed within three days.

**Tardy:** Tardies are not allowed unless getting off of a late bus. In a case where a student is more than 15 minutes tardy s/he will be written-up for a cut.

**Messages:** The student has the responsibility to ensure he or she reads all messages and documents sent out on Canvas. We will be using minimum paper for this class and most of our communications will be electronic.

**Late Assignments:** This is a fast-paced class and students are strongly advised to try and submit all assignments by due date. Any assignments submitted after the due date but within the week will earn a 10% penalty. Any assignments submitted two weeks after the due date will earn a 20% penalty. Any assignment submitted three weeks after the due date will earn a 30% penalty.