**School Year 2022 - 2023**

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| **Course Name** | **GSE Geometry**  | **Course Code** |  **27.0991013** |
| **School Name** | **Richmond County Technical Career Magnet School (RCTCM)** | **Teacher Name** | **Mrs. B. Sanders** |
| **School Phone Number** | **(706) 823-5284** | **Teacher Email/** | **Sandebo@boe.richmond.k12.ga.us** |
| **School Website** | **http://rctcm.rcboe.org/** | **Teacher Website** | **https://www.rcboe.org/Page/3192** |

**Course Description**

GSE Geometry is the second in a sequence of courses designed to ensure that students are prepared to study higher‐level mathematics. GSE Geometry is organized into 7 units. Transformations on the coordinate plane provide opportunities for the formal study of congruence and similarity. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. The study of circles uses similarity and congruence to develop basic theorems relating circles and lines. Quadratic expressions, equations, and functions are developed; their characteristics and behavior are compared to those of linear and exponential relationships from Algebra. Circles return with their quadratic algebraic representations on the coordinate plane. The link between probability and data is explored through conditional probability. The Mathematical Practice Standards apply throughout the course and, together with the content standards, encourage students to experience mathematics as a coherent, useful, and logical subject.

In the spring students take a culminating state exam, the Georgia Milestones End-of-Course test for Geometry.

**Major Course Goals**:

The major course goal is for students to learn essential knowledge and skills about Functions, Algebra, Geometry, Statistics and Probability, Algebra in Context, and Geometry. Once mastered, these goals will give a student the ability to use reasoning and thinking skills to learn and understand other curriculum objectives. It is the goals of the Mathematics department to have students learn to use and appreciate technology as a mathematical tool. Graphing calculators are powerful mathematical tools.  Through their use students can visualize problems more quickly, discover mathematical properties, and validate their work done with pencil and paper.  They must be used appropriately.  Graphing calculators are not substitutes for students learning mathematical concepts and processes.  They are to be used to enhance student learning. I have a set of graphing calculators for students to use while in my classroom.  In order to ensure security, students will only be allowed to use one of my calculators on in-class quizzes and tests.

Bring your own technology (BYOT) **will** be used during this course. Students are encouraged to bring laptops to class as we will utilize canvas for most assignments. However, cell phone use is not allowed.

**Curriculum Overview**

The following academic concepts will be covered. **THIS IS ONLY A GUIDE AND IS SUBJECT TO CHANGE.**

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| **CURRICULUM OVERVIEW – UNITS OF STUDY** |
| **FALL Semester** | **SPRING Semester** |
| Similarity, Congruence, and Proofs | Geometric and Algebraic Connections |
| Right Triangle Trigonometry | Applications of Probability |
| Circles and Volume |  |
| Extending the Number System |  |
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**BOARD-APPROVED INSTRUCTIONAL MATERIALS**

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| --- | --- |
| Title | Houghton, Mifflin, Harcourt – Georgia Geometry |
| Online book and/or resources | https://www.hmhco.com/ |

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| **EXPECTATIONS FOR SUCCESS** |
| **STUDENT PROGRESS** | The progress of students shall be evaluated frequently and plans shall be generated to remediate deficiencies as they are discovered. Plans shall include appropriate interventions designed to meet the needs of the students.  |
| **ACADEMIC INTEGRITY** | Students will not engage in an act of academic dishonesty including, but not limited to, cheating, providing false information, falsifying school records, forging signatures, or using an unauthorized computer user ID or password.  |
| **SCHOOL EXPECTATIONS FOR SUCCESS** |
|  **CLASSROOM**  **EXPECTATIONS** | * Be on time.
* Make sure technology is fully charged
* **NO CELL PHONE USE!**
* Be prepared with all the supplies and designated work.
* Follow all school and district rules.
* Be seated before the tardy bell with all required materials. Begin bell ringer without prompting from teacher.
* Treat others with respect.
* Actively participate in class activities and discussions.
* Please take all your books or other materials with you when you leave my class. Anything found will be turned in to the lost and found or the media center.
* No eating however gum and water are allowed.
* There will be **NO** sleeping or laying down of head in class.
* There will ***NOT*** be any **OBSCENE** language used in this class.
* Get water, use the restroom, and sharpen pencils before class.
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|  **MATERIALS AND**  **SUPPLIES** | * Notebook paper (loose-leaf paper)
* #2 pencils and erasers, pencil sharpener (personal size)
* Graphing calculator –Recommended- TI 83 or TI 84
* Dry erase marker
* Technology (computer or tablet)
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|  **EXTRA HELP** | * Tutoring: TBA.
* Online Resources
* REMIND CODE: @f79b2d
	+ Khan Academy – [www.khanacademy.org](http://www.khanacademy.org)
	+ DESMOS- <https://www.desmos.com/geometry>
	+ HMH -https://www.hmhco.com/
	+ Schoolwires-<https://www.rcboe.org/site/Default.aspx?PageID=3192>
	+ See Gizmos – www.explorelearning.com
* Teacher website for additional resources and instructions
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|  **PARENTS AS PARTNERS** | * Reach out to teacher via email or remind
* Check Parent Portal on a regular basis
* Ensure students complete practice daily.
* Leverage the online resources noted above
* Review progress reports with student.
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**\*\*IMPORTANT - Parent Contact Information and assignment** - Your child's **first assignment is to have his/her parents complete and email acknowledgment** so that I am sure to have your correct email addresses and phone number. If you do not have an email address, please indicate on sheet.  ***EMAIL: Sandebo@boe.richmond.k12.ga.us***

# PLEASE EMAIL ACKNOWLEDGING RECEIPT.

Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I have read the syllabus.

Student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Additional information to support continued contact:

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| **Information** | **Parent/Guardian** |
| **Home Phone Number** |  |
| **Cellular Phone Number** |  |
| **Work Phone Number** |  |
| **Email Address** |  |