Mr. Gray

Belair Middle School

Room 829

8th Grade Mathematics

Syllabus ‖ 2025-2026

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**Course Description**

This course is designed to prepare students for high school mathematics by focusing on the Georgia Standards of Excellence (GSE) for 8th Grade Mathematics. Emphasis is placed on understanding algebraic thinking, analyzing functions, working with irrational numbers, applying geometry concepts, and modeling with mathematics in real-world contexts.

1. **Number System (NS)**
   * Know and apply the properties of integer exponents.
   * Work with radicals and integer roots.
   * Perform operations with numbers expressed in scientific notation.
2. **Expressions and Equations (EE)**
   * Analyze and solve linear equations and systems.
   * Understand and apply the properties of operations to generate equivalent expressions.
3. **Functions (FGR)**
   * Define, evaluate, and compare functions.
   * Use functions to model relationships between quantities.
4. **Geometry (GSR)**
   * Understand congruence and similarity using physical models.
   * Apply the Pythagorean Theorem
   * Solve real-world problems involving volume of cylinders, cones, and spheres.
5. **Statistics and Probability (SPR)**
   * Investigate patterns of association in bivariate data

**Materials Needed**

* Math binder
* Notebook/Paper
* Pencils and erasers

**Classroom Expectations**

* Students are EXPECTED to be respectful to themselves, others, and the classroom.
* Students are EXPECTED to be prepared and on time.
* Students are EXPECTED to follow all school and classroom policies and procedures.
* Students are EXPECTED to use computer software appropriately at all times.
* Students are EXPECTED to participate actively in their learning.
* Students are EXPECTED to refrain from having a cellphone, eating, drinking, and/or grooming in the classroom. ***In regard to cellphones and other electronic devices, please read pages 15-16 of The Code of Student Conduct and Discipline 2025-2026.***

**Discipline/Consequences**

* Verbal Warning
* Loss of Dojo points & Reflection
* Parent Contact
* Major Write-up & Parent Conference

**Classwork, Homework, Late Work Policy**

All classwork is to be completed and turned in at the end of the class period, unless otherwise stated. Homework is due the next day, unless otherwise stated. Late work will be accepted within 5 days with a grade deduction of 5 points per day. Late work submitted after the fifth school day will only be accepted at the teacher’s discretion. Completing work in a timely manner during the learning unit is essential for academic success.   
Students are encouraged to reach out for help if they need support meeting deadlines.

**Grade Weight**

Minor Grades: Classwork, Homework, Quizzes, Warm-ups, i-Ready, Short Discussion, Entrance/Exit Tickets - 60%

Major Grades: Projects, Tests, Extended Discussion - 40%

Students **MUST** receive a passing grade in Mathematics class and pass the end-of-year Georgia Milestone Testing to be promoted to the 9th grade.

**CHEATING IS ABSOLUTELY UNACCEPTABLE AND WILL RESULT IN A ZERO AND PARENT CONFERENCE**

**Please sign and return this syllabus by 08/15/2025 to confirm that you have read and understood the syllabus for this class.**

**Student Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Student Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Parent/Guardian Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Parent/Guardian Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_