****

**Algebra: Concepts & Connections Syllabus**

**2024-2025**

**Instructor:**

Swathi Velishala

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Room Number-418

**Course Description and Objectives:**

This course is designed as the first course in a three-course series. Students will apply their algebraic and geometric reasoning skills to make sense of problems involving algebra, geometry, bivariate data, and statistics. This course focuses on algebraic, quantitative, geometric, graphical, and statistical reasoning. In this course, students will continue to enhance their algebraic reasoning skills when analyzing and applying a deep understanding of linear functions, sums and products of rational and irrational numbers, systems of linear inequalities, distance, midpoint, slope, area, perimeter, nonlinear equations and functions, quadratic expressions, equations and functions, exponential expressions, equations, and functions, and statistical reasoning. High school course content standards are listed by big ideas including Data and Statistical
Reasoning, Probabilistic Reasoning, Functional and Graphical Reasoning, Patterning
and Algebraic Reasoning, and Geometry Patterning and Spatial Reasoning.

**Textbook:**

HMH Into Algebra Georgia

**Unit/Concept Names:**

Unit 1 -Modelling Linear Functions

Unit 2-Analysing Linear Inequalities

Unit 3 -Investigating Rational and Irrational Numbers

Unit 4-Modelling and Analyzing Quadratic Functions

Unit 5-Modelling and Analyzing Exponential Expressions &Equations

Unit 6-Analyzing Exponential Functions

Unit 7-Investigating Data

Unit 8-Algebraic Connections to Geometric Concepts

**Evaluation (Schoolwide Grading Policy):**

* *Minor Grades* = 60% (quizzes, labs, and graded assignments to assess certain standards in a unit of study)
* *Major Grade*s = 40% (unit tests, essays, research papers, project-based assignments, and culminating assessments to measure mastery of standards that comprise a unit of study)

**Behavioral expectations:**

**Every student is responsible for helping to maintain a clean, safe learning environment. Your area must remain CLEAN at all times. The floor should be clear of trash, paper, and personal belongings. Adhere to all policies, rules, and regulations outlined in the student handbook.**

* 1. **Be Ready**

 **A. Come prepared for class when the bell stops ringing.  This means have the materials needed for class, have the “I can do it” attitude, be ready to do your best, and be ready to begin the day’s work.  Materials you will need to bring to class include textbook, notebook, assignments and appropriate writing instruments (pencil). (If the student is not sitting in a desk and working on warm-up when the bell rings, THEY WILL BE MARKED TARDY!)**

* 1. **BE RESPECTFUL OF \_\_\_\_\_\_\_\_**
1. **ME (THE TEACHER)**
2. **YOUR CLASSMATES**
3. **MY CLASSROOM**

* 1. **BE RESPONSIBLE FOR YOUR\_\_\_\_\_\_\_\_\_**
1. **ATITUDE**
2. **GRADE**
3. **DECISIONS**
4. **STUFF**

**If you choose not meet the above expectations the follow will your consequences:**

1. **First offense -Warning- teacher and student will have a short conversation about what is expected and why.**
2. **Second offense- parent contact- parent will be notified of the possible next steps if behavior continues.**
3. **Third offense- parent phone call and referral**
4. **Course Materials:**

Pencils​

Scientific Calculator​

Composition/Spiral notebook​

Loose-leaf paper (College rule)​

Folder ​

Charged Laptop

Coloring Utensils (crayons, coloring pencil, or markers)  ​

Donations appreciated for the following (optional):

**\***Copy Paper \* Hand Sanitizer \*Dry Erase Markers \*Kleenex \* Disinfectant Wipes

**Modes of Communication:**

PARENTS ONLY- 7622338780

please Email: VelisSw@boe.richmond.k12.ga.us