**Algebra: concepts and connections**

Ms. Reagene Rodgers

**Course Syllabus 2024-2025**

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**Phone Number: (706)-592-2089**

**Please join Remind.** Text the message **@rearod5th to 81010**

**Course Description and Goals:**

Algebra: Concepts and Connections is the first course in a sequence of three high school courses designed to ensure career and college readiness. 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 Geometric and Spatial Reasoning.

**Course Outline:** Algebra I is divided into several different units.

Unit 0: Think Like a Mathematician 5 days

Unit 1: Modeling Linear Functions 20 days

Assessment Enrichment Remediation /Pre-Unit Review Buffer Unit 1 3 days

Unit 2: Analyzing Linear Inequalities 9 days

Assessment Enrichment Remediation /Pre-Unit Review Buffer Unit 2 3 days

Unit 3: Investigating Rational and Irrational Numbers 10 days

Assessment Enrichment Remediation /Pre-Unit Review Buffer Unit 3 3 days

Unit 4: Modeling and Analyzing Quadratic Functions 33 days

Assessment Enrichment Remediation /Pre-Unit Review Buffer Unit 4 3 days

Unit 5: Modeling and Analyzing Exponential Expressions & Equations 10 days

Assessment Enrichment Remediation /Pre-Unit Review Buffer Unit 5 3 days

Unit 6: Analyzing Exponential Functions 20 days

Assessment Enrichment Remediation/Pre-Unit Review Buffer Unit 6 3 days

Unit 7: Investigating Data 12 days

Assessment Enrichment Remediation/Pre-Unit Review Buffer Unit 7 3 days

Unit 8: Algebraic Connections to Geometric Concepts 10 days

Assessment Enrichment Remediation/Pre-Unit Review Buffer Unit 8 2 days

Culminating Capstone Unit 25 days

**Assignments and Absences**

Students will receive a variety of assignments designed to enhance their learning. If a student is absent, the student is responsible for the missed assignment. Students who was absence will be allowed 10 days to turn the missing assignment.

Course Assessment Plan/Grading Scale:

Major Assignments 60%

Minor Assignments 40%

**Grade recovery consists of assignments created by the teacher.**

**School Expectations**

**Follow all school rules and policies (REBEL Alert – PBIS).**

**- P-Positive**

**- R-Respectful**

**-I-Innovated**

**-D- Determined**

**-E- Excellent**

**Course Material**

* **1 Large** Three-ring binder (1” or 2”) or Composition notebook
* Pencils
* 1 Package of Dividers (Label: Notes, vocabulary)
* Erasers
* Loose Leaf Paper
* School issue computer Only (see media specialist for school issue computer)

**Classroom Procedures and Expectations**

1. Walk into the classroom quietly and take your seat.
2. If you are tardy, you must have a pass from either the office or teacher that kept you late.
3. As soon as you are seated, get out all materials needed for class.
4. During assessments you are to raise your hand if you have a question, and I will come to you. Always bring a book to read after you finish your test as not everyone will finish the test at the same time.
5. During class work, raise your hand and I will recognize you
6. If you are absent, it is your responsibility to check with your teacher and check canvas to see which assignments you missed.
7. Do not stand up, pack your book bag, clear off your desk or leave the classroom until instructed to do so.
8. During a fire or tornado drill, remain calm and walk quietly to our designated areas.
9. During any announcements be quiet and listen until they are finished.

**Classroom Rules**

1) Be respectful

2) Sit in assigned seat

3) **No food or drink**

**4) Keep electronics put away**

**Classroom Consequences**

1) verbal warning

2) parent contact

3) administration involvement

All consequences will be aligned with the HHS school wide discipline plan.

**Conferences**

**In order to schedule a conference with your teachers, please contact the Guidance Office 706-592-2089**

**Tutoring:**

**Ms. Rodgers- Wednesdays or by appointment (please give 3 days prior notice)**

**Signature Page**

By signing below, we acknowledge that we have read and understand the

Course Syllabus 2024-2025 (AMDM)

Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent contact information :

Home phone number : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Cellphone number : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Work number : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_