

## GSE Foundations of Algebra Fall 2019

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815b



## Welcome to Foundations of Algebra!

### Course Description

Foundations of Algebra class is a year-long course that will give you the opportunity to build a stronger foundation for future success in math and other high school courses. Foundations of Algebra will provide many opportunities to revisit and expand your understanding of foundational algebra concepts, will employ diagnostic means to offer focused interventions, and will incorporate varied instructional strategies to prepare you for required high school courses. This course will emphasize both algebra and numeracy in a variety of contexts including number sense, proportional reasoning, quantitative reasoning with functions, and solving equations and inequalities.

In the first semester, Modules 1 – 4 will be taught, as well as Units 1 and 2A of Algebra 1. In the second semester, Units 2B – 6 of Algebra 1 will be taught.

#### Standards for Mathematical Practice:

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with Mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

#### Content Area Standards:

The standards addressed in this course fall under the following subject area strands:

- Number Sense and Quantity
- Arithmetic to Algebra
- Proportional Reasoning
- Equations & Inequalities
- Quantitative Reasoning with Functions
- Modeling & Analyzing Quadratic Functions
- Modeling & Analyzing Exponential Functions
- Comparing & Contrasting Functions
- Describing Data/ Review and Extend

A more detailed description of the standards addressed in each unit can be found at [www.georgiastndards.org](http://www.georgiastndards.org)

## Foundations of Algebra Course Schedule

### 1<sup>st</sup> Semester

• <b>Module 1:</b> <i>Number Sense and Quantity</i>	3 Weeks	8%
• <b>Module 2:</b> <i>Arithmetic to Algebra</i>	3 Weeks	8%
• <b>Module 3:</b> <i>Proportional Reasoning</i>	2 Weeks	8%
• <b>Mid-Term:</b> <i>Date will be announced</i>	-----	10%
• <b>Module 4:</b> <i>Equations &amp; Inequalities</i>	4 Weeks	20%
• <b>Unit 1:</b> <i>Relationships Between Quantities &amp; Expressions</i>	5 Weeks	18%
• <b>Unit 2A:</b> <i>Systems of Equations &amp; Inequalities</i>	3 Weeks	18%
• <b>Final Exam:</b> <i>Date will be announced</i>	-----	10%

## 2<sup>nd</sup> Semester

- **Unit 2B:** *Linear Functions* 3 Weeks
- **Unit 3:** *Modeling & Analyzing Quadratic Functions* 6 Weeks
- **Unit 4:** *Modeling & Analyzing Exponential Functions* 3 Weeks
- **Mid-Term**
- **Unit 5:** *Comparing & Contrasting Functions* 2 Weeks
- **Unit 6:** *Describing Data/ Review and Extend* 4 Weeks
- **Final/State Exam:**

\*Time spent on each unit is an approximation. Some units may need more/less time.\*

## Grading Policy

Formative assessments will be given weekly and may include homework, quizzes and classwork. Summative assessments will be given at the end of each unit. The most important thing is that the student understands the material, therefore, SHOWING UNDERSTANDING is how a student earns his/her grade.

**YOU ARE ONLY ALLOWED TO RETAKE ASSESSMENTS OR IMPROVE YOUR GRADE AFTER COMING TO TUTORING AND/OR PROVING THAT YOU UNDERSTAND THE CONCEPT(S) ON YOUR OWN.**

## Grading Scale

90 – 100 %	A
80 – 89 %	B
74 – 79 %	C
70 – 73 %	D
69 & below	F

Grading Policy: 80% Summative and 20% Formative

Summative: Projects, Final exam or EOC, Midterm, Unit Exams

Formative: Classwork, Homework, Mini quizzes

## Class Expectations

Because we value education:

- Come to class every day, on time, and prepared with all materials necessary for learning.
- Be respectful of your classmates' questions and opinions; including yourself.
- Review/study every night- which includes the concepts you understand and concepts that you do not understand.
- Participate in your own learning by asking questions.
- Be responsible- have assignments ready and due on time.
- Be your best academically and socially.
- Seek tutoring when you begin to struggle. *Follow the 5 P's: Prior planning prevents poor performance.*

## Tutoring/Grade Improvement

Tutoring will be available after school on Tuesdays from 3:45pm to 4:45pm in my classroom. If I am not available, or there is a conflict, a schedule of tutoring days, times and locations of other teachers are available in the back of the classroom. **Tutoring will be only for students who have participated in class and completed assignments, those students that are absent, or students preparing for reassessment.**

## Homework

Homework in math is EXTREMELY IMPORTANT and will be graded. You will have homework daily. To excel in math, you must practice!

## Absences & Tardies

Please adhere to the school's tardy policy. In my classroom, you are considered tardy if you are not in your seat when the bell rings.

If you are absent from school for ANY reason, it is THE STUDENT'S RESPONSIBILITY to bring in an excused note within three (3) days of returning to school. A student may make-up all work missed for excused absences within the timeframe determined by the teacher; tests and quizzes will be scheduled after-school. Any work that was due while the student was out must be turned in when the student returns to school. Any missed quizzes or tests will be assigned a grade of zero (0) until the assignment is completed.

## Cell Phones/ Electronic Devices

While cellphones and other electronic devices can be an important communication and safety device for families, their use during the school day is prohibited **unless** your teacher specifically tells you that you will use it during instruction. Failure to not adhere will result in the initiation of classroom/school disciplinary procedures.

- ❖ Warning (given at the beginning of class everyday)
- ❖ Detention and parent contact
- ❖ Administrative referral and parent contact

## Cheating Policy

Cheating on assignments will not be tolerated. This includes copying other student's work, having the exact content of another student's work for multiple problems, possessing another student's work, submitting another student's work as your own, assisting others in cheating, and/or having a cell phone out. A grade of zero (0) will be assigned as a consequence for all cheating incidences- and for all parties involved when the case warrants, and the assignment(s) will not be able to be retaken. All cheating will be reported to parent (s) and administrators.

## Group Work Policy

Students will often work cooperatively in groups. Participation within a group and rotation of responsibilities among group members is expected. When learning or performance tasks are evaluated based on responses turned in collectively by a group, each member will receive the grade earned by the group. If, however, any member disagrees with a response given by the group, that member may turn in his/her own response or solution, which will be graded on an individual basis. *I reserve the right to grade a student individually due to lack of participation within his/her group.*

## FOUNDATIONS OF ALGEBRA SUPPLY CHECKLIST

To improve organizational skills, we require the following supplies:

- #2 Pencils and Erasers
- Notebook/Binder/Composition book
- Glue sticks
- Highlighters/ colored pencils
- Loose leaf lined paper
- Calculator- Scientific or Graphing (A scientific calculator is provided for classroom use ONLY)

✚ *The class always welcomes donations, such as the following: Tissue, Hand Sanitizer/wipes, Bandages*

# Student Information Sheet

PLEASE RETURN THIS PAGE TO MS. BARNES

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_ Middle: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Student Email: \_\_\_\_\_

Street Name: \_\_\_\_\_ Apt # \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

## Parent/Guardian Contact Information

1) Parent or Guardian \_\_\_\_\_ Relationship: \_\_\_\_\_

Parent/Guardian Work Phone: \_\_\_\_\_ Parent/Guardian E-mail: \_\_\_\_\_

2) Parent or Guardian \_\_\_\_\_ Relationship: \_\_\_\_\_

Parent/Guardian Work Phone: \_\_\_\_\_ Parent/Guardian E-mail: \_\_\_\_\_

Do you have access to the Internet? \_\_\_\_\_ Where? \_\_\_\_\_

What extra-curricular activities do you participate in? \_\_\_\_\_

If you have a medical issue that I should be aware of, or if you have any other concerns, please include them here: \_\_\_\_\_

## **PARENT/GUARDIAN PLEASE INITIAL:**

- \_\_\_\_\_ *I have read the syllabus with my student. If I have any questions I will contact Ms. Barnes.*
- \_\_\_\_\_ *I understand the expectations for cell phones and any other electronic devices.*
- \_\_\_\_\_ *I understand the requirements for grade improvement.*
- \_\_\_\_\_ *I understand the academic and behavioral expectations for this course.*
- \_\_\_\_\_ *I am aware of the suggested supplies for Foundations of Algebra.*

X \_\_\_\_\_

Student Signature

X \_\_\_\_\_

Parent/Guardian Signature