



## **GSE ALGEBRA I Course Syllabus (2020-21)**

**Instructor** Stephanie Corcho Fraser

**Room#** 705

**School** Eagles landing High School

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**Office hrs.** Weekdays 7:45 – 8:15 a.m  
3:15 – 3:45 p.m

### **Course Description:**

Algebra 1 introduces students to variables, algebraic expressions, equations, functions, inequalities, and their multiple representations. The students develop the ability to explore and solve real-world application problems, demonstrate the appropriate use of graphing calculators, and communicate mathematical ideas clearly.

This course lays the foundation for every subsequent course in mathematics. Success in Algebra I must be encouraged and emphasized since it is an accurate indicator of future success. This course will be taught in one semester on a block schedule, August to December and January to May.

### **Goals:**

By the end of the semester, students should be able to:

- Simplify or identify equivalent algebraic expressions
- Represent math relationships using symbolic algebra
- Determine if functions are linear, quadratic, or exponential
- Determine a rule that generates terms of a pattern
- Model and describe slope as a constant rate of change
- Evaluate variable expressions and functions
- Identify an equation of a line or an equation of a line of best fit from given info

- Recognize the general shape and properties of functions from graphs, tables, or equations
- Identify slope from an equation, table of values, or graph
- Interpret the role of the coefficients and constants on the graphs of linear and quadratic functions
- Analyze functions by investigating domain, range, rates of change, intercepts, and zeros
- Create and connect representations that are tabular, graphic, numeric, and symbolic from a set of data
- Represent quantitative relationships graphically, and interpret the meaning of the graph or a specific part of the graph as it relates to the situation represented by the graph
- Model problems using math functions and relations
- Interpret the graph of a system of equations and inequalities
- Solve linear equations and inequalities
- Solve systems of equations and inequalities

**Required Text:**

*Houghton Mifflin Harcourt (HMH) Into Algebra 1* ©2020 this school year. Students will have access to an online portal as well.

**Required Student Materials:**

- Folder
- Several three-hole notebooks
- 8 x 11 grid paper
- Pencil pouch
- Several pencils, eraser, ruler
- Glue stick
- Colored pencils
- Highlighter
- Loose-leaf 8 x 11 notebook paper
- TI 84 Graphing Calculator

### **Grading Policy:**

Eagle's Landing's grading scale will be used.

\*\*\*students who fall below 75% will be required to spend ½ hour after school for tutoring on at least two days until improvement.

### **Grading Distribution**

- Students are evaluated according to a variety of criteria.
- Students' grades are based on classwork which includes class participation, daily homework assignments, quizzes, and unit assessments, including midterm and final exams.

Practice work (Homework, classwork)	40%
Tests and Quizzes	40%
End-of-Course (Georgia Milestone)	20 %

### **Unit Assessment/Quizzes/Exams:**

There will be in-class assessments and/or take-home assessment at the end of each unit, and quizzes may be given at any time. In addition, a mid-semester and end of semester exam will be given. Assessments will consist of a few problems that require the use of a combination of strategies and techniques explored throughout the unit. As always, emphasis will be on the explanation of the process, not just on the solutions.

Homework/Classwork:

Expect homework on a daily basis. For the most part, homework is due the day after it is assigned, and must be completed prior to the start of class. Some assignments will be scored in class based on effort and completion, while others will be collected and scored based on accuracy. **You will not be told ahead of time which assignments will be collected.** All problems should be adequately attempted and evidence for your efforts must be shown. Students may receive partial credit for incomplete homework.

### **Problems of the Week:**

Problems of the week are long-term problem-solving, usually open-ended assignments. Despite the name, on occasion, you may have more than one week to work on a problem of the week.

### **Attendance/Participation:**

You are expected to be prepared, participate in group discussions, work together on activities, answer questions posed by the teacher, present solutions to homework problems to the class, take notes on all activities, and follow general directions.

**It is very important that you attend class daily. You will need to be up-to-date with the material at all times since most of the topics build upon each other. If you are absent, it is your responsibility to find out what you have missed.**

**\*\*\*\*\*During remote learning all classes will be recorded and uploaded in google classroom**

**\*\*\*\*\* Guided notes will be presented using google docs and each student is required to make a copy and complete in class each day**

### **Tardy Policy**

#### **During Remote Learning**

No student will be marked tardy, however each student is required to log in to class sessions daily using the google meet link located in the header in google classroom within the first five minutes.

#### **During Face-to Face Learning**

Each student is required to be in class on the ring of the bell to avoid being marked tardy.

## Classroom Rules/Expectations

- **Respect** yourself, others, and the classroom (i.e. do not wear hats. Hoodies, or sunglasses in the classroom, no swearing, no put-downs, pick-up trash).
- **Be responsible** for yourself (i.e. when you are absent you are still responsible for the notes, homework, and/or assessment missed. Come to tutoring or office hours for extra support on homework or to make ups).
- **Follow directions** the first time they are given.
- **No electronic devices** (i.e. smart phone, cell phone, headphones.)
- **Be prepared** and in your assigned seat when the bell rings and until dismissed.
- **Adhere** to ALL school rules

## Technology

- If a student is in possession of any electronic devices (smartphone, tablet, etc.), then those devices must be placed in an assigned pocket of a classroom phone caddy during every class period including instructional focus.
- If you have more than one device, (ex: multiple smartphones, and/or tablets), then both items must be placed in the assigned pocket.
- Students will be allowed to use their devices in the morning in the commons area before first block, between class changes, and during lunches (as long as they are not speaking on the phone or playing music that others can hear).
- Please note that failure to comply with this expectation will result in a discipline referral and appropriate consequences will be given.
- ELHS is not responsible for lost or stolen electronic devices. Students are encouraged to leave "non-instructional" personal items at home. The school-issued Chromebooks are the only electronic devices that are needed in the instructional setting.

### **Consequences for Misconducts**

1. Warning/Student conference
2. Parent contact
3. Office referral
4. Severe offences will be referred to the office immediately.

\*\*\*\*This syllabus is subject to change. Students will be notified ahead of time of change.