**Algebra I and Honors Algebra I Syllabus**

**2021-2022 School Year**

**Course**: **Algebra 1 & Honors Algebra I**

**Instructor:** Miss Kelci Pearce

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**Extra Help/Makeup Office hours** – 5th period every day, individual appointments may be arranged

# Textbook: Eureka Math, A Story of Functions: Algebra I, Modules I-5: 1st Editions, Great Minds.

**Course Description**:

Algebra I is intended for students to build their foundational mathematical skills. Students explore the main functions during this course, which are: linear, quadratic, and exponential. As they learn to graph these functions, they reason abstractly and quantitatively as well as choose and interpret units to solve problems. Students will use the structure of expressions to define what it means for two algebraic expressions to be equivalent. They will now learn to explain, justify, and evaluate their reasoning behind solutions, rather than simply solving equations. Last, students will learn that problems can be solved through modeling cycles.

**Course Requirements:**

Materials:

Eureka Math Book (online version at greatminds.org)

Loose-leaf notebook paper and graph paper

Notebook

Pencil…NOT PEN

Calculator (It is suggested, but not required, that a student has a TI Nspire CX)

· **Homework (10% of grade), Classwork (35% of grade), Participation (5% of grade)**

* We will have homework 3-4 nights a week. Each homework assignment will be considered a COMPLETION grade. (HINT: So, even if you get stuck on a problem **always** ATTEMPT IT BECAUSE IT IS A COMPLETION GRADE ☺)
* We will have Bellwork each day during the first 5 minutes of class. This will be graded at the end of each week as possible participation points. Make sure you are getting to class on time so as not to miss bellwork!
* We will also have some in-class work from the workbook and/or worksheets, some of which will be group assignments as well.

**· Assessments (40% of grade), Projects (10% of grade)**

-For each Module of the textbook, there are “Mid-Module Assessments” halfway through, and “End of Module Assessments” once we complete a Module.

- There are also Common Formative Assessments (CFAs) taken Quarterly to monitor progress on topics covered over a 9-week period

- There is ONE project per quarter

· **Excused Absences and Extra Help**

When absent, each student should contact me or a classmate to keep up with class work and homework assignments. I will also post any handouts on my website so that everyone has access to that. Any scheduled class work, homework, tests and quizzes will be completed on the day the student returns to class. If a student misses an extended amount of time from class, the student should contact me to schedule an appropriate time to discuss course work. Extra help can be arranged via appointment.

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**Topics Covered (1st Quarter): MODULE 1**

Topic A: Introduction to Functions Studied this Year—Graphing Stories

Topic B: The Structure of Expressions

Topic C: Solving Equations and Inequalities

Topic D: Creating Equations to Solve Problems

 **Topics Covered (2nd Quarter): MODULE 3**

 Topic A: Linear and Exponential Sequences

Topic B: Functions and Their Graphs

Topic C: Transformations of Functions

Topic D: Using Functions and Graphs to Solve Problems

**Topics Covered (3rd Quarter): MODULE 4**

Topic A: Quadratic Expressions, Equations, Functions, and Their Connection to Rectangles

Topic B: Using Different Forms for Quadratic Functions

Topic C: Transformations of Functions

**Topics Covered (4th Quarter): MODULES 2 & 5**

Module 2 Topics- A: Descriptive Statistics

B: Describing Variability and Comparing Distributions

D: Numerical Data on Two Variables

Module 5 Topics- A: Elements of Modeling

B: Completing the Modeling Cycle

To the Parent:

Please read and discuss this material with your son/daughter. It is very important to me, as the instructor, that you and your child understand the expectations and requirements of this course. Please feel free to contact me via email or text/call me if you have any questions or concerns. I appreciate your support and look forward to a very productive year!

Sincerely,

Kelci Pearce

Please return ONLY THIS PAGE signed to me by the end of the first week of school. In doing so, your child will receive a 100 for the first “quiz” grade!! ☺

I have read and reviewed with my child the information regarding Algebra 1 expectations and content.

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Parent Signature

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Phone and/or Email Address

I have read, reviewed, and understand the information regarding Algebra 1 attached.

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Student Signature

*\*\* Please make a note if it is okay to text you for communication purposes, as this is easiest for me. Also, if you provide a working email address, I will send reports to update you on your child’s progress throughout the year! \*\**