

# *Algebra 1 Course Syllabus*

**Teacher:** Mrs. Agozzino

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**Room:** 428

**Teacher page:** <https://www.longbranch.k12.nj.us/Page/21168>

## **Course Description:**

- Welcome to your Algebra 1 course. This course is worth 5 credits and is required for graduation. It builds upon the topics learned in 8th grade and serves as the foundation for all future high school math courses. We will be using Big Ideas Math as our main curriculum. The course is designed to develop proficiency in recognizing and working with linear and nonlinear equations, functions, inequalities, systems, and polynomials.

Major concepts include:

- Foundations of Algebra
- Solving equations and inequalities
- Linear functions
- Systems of equations and inequalities
- Exponents and exponential functions
- Polynomials and factoring
- Quadratic functions and equations
- Radical expressions and equations
- Data analysis

Students will explore math concepts through inquiry-based learning and cooperative problem-solving using our vertical whiteboards.

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## **Course Objectives:**

- Model and solve problems using linear equations.
  - Model, solve, and graph linear inequalities.
  - Graph linear functions in different forms and analyze their characteristics.
  - Construct linear functions from verbal, graphical, and tabular representations. Create and analyze piecewise functions and lines of best fit.
  - Construct and solve systems of equations using graphing, substitution, and elimination. Describe special cases of systems.
  - Construct and analyze exponential functions and sequences.
  - Perform operations with polynomials and factor polynomials.
  - Graph and describe characteristics of quadratic functions.
  - Solve quadratic equations.
  - Become proficient in utilizing TI-84 calculators to analyze equations/functions.
  - Collaborate with teammates during small group instruction
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**Helpful Materials:**

- Free online calculator: <https://www.desmos.com/calculator>
- Algebra resources: <https://www.bigideasmath.com/BIM/login>
- Video resource with examples: <https://www.khanacademy.org/>

**\*\* Delta math: each class will be able to join with a code which will be posted on our Google classroom link\*\***

**Required Materials**

- Choose one: Notebook or Binder with lined paper
- Charged Chromebook
- Folder
- Student workbook (to be provided in class)
- Highlighter
- Pencils and calculators (provided in the classroom)

**Calculator Policy:** Each student will be assigned a specific calculator and is responsible for returning it at the end of each class period.

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**Grading Policy**

- **Level 1 (20%):** Warm Ups/Do Nows, Exit tickets, Class notes, Homework, Class participation, Mid-lesson checks, Technology assignments on Pear assessment, Delta Math.
- **Level 2 (30%):** Warm up/exit ticket quizzes, Error analysis, Performance tasks, Collaborative learning activities.
- **Level 3 (50%):** Chapter exams or quizzes, Performance tasks.

**Genesis:**

- Grades will be updated daily on Genesis and it is important that you are checking your grades to observe if anything is missing. This is an important responsibility to practice and become independent!

**Homework:**

- Will be given to support fluency, practice and reflection on major skills or lessons. Homework that will be graded MUST include work shown. There will be no credit earned for no work shown.

**Attendance Counts:**

- It is important to be present as each topic builds off the previous one. Any student that is absent is responsible for making up any missing work by attending SAP (Monday/Thursday 2:00pm-2:25pm) and checking Google classroom for assignments. Students may also come and discuss what we learned that day as I will have an absent folder that contains the skill and/or assignment of the day. Communication is key!
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## **Class Policies and Expectations**

- **Punctual:** Arrive on time.
- **Respectful:** Respect each other, yourself, our classroom and school property.
- **Listening:** Engage in discussions and listen to peers.
- **Consistent:** Follow classroom routines to support learning.
- **Prepared:** Bring your notebook/binder, pencil, and calculator.

**Our class rules and routines will be rereferred to and practiced daily!**

## **Cell Phone Policy:**

- Being present and not distracted is how we learn best. Students will have the opportunity to place their cell phones in a safe space at the beginning of class. If the student is more comfortable holding the phone it must be put away in their bag or face down on their desk. If this is a challenge a discussion will be had at the end of class. Mrs. Agozzino puts her phone away too! We are a team!

## **Rewards:**

- Star student recognition
- Positive email or call home
- Nomination for student of the month
- Letters of recommendation
- Shout out

## **Consequences:**

1. Non-verbal warning
  2. Verbal warning (1st time: student/teacher discussion)
  3. Verbal warning (2nd time: discussion recorded in Genesis)
  4. 3rd time: discussion and improvement plan created; guardian contacted
  5. Repeat process
  6. 2nd repeat ---> Referral
  7. School Detention, ISS, etc
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## **Star Student Recognition**

- Each month, a student will be recognized for their contributions, participation, hard work, teamwork, and improvement. The selected student will receive a certificate, star trophy, and prize!
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## **Homework:**

Please sign below and return to Mrs. Agozzino. In addition, please list 3 (or more) questions, comments or ideas that you have to make our course fun and engaging as well!

### **Conclusion:**

I have read the syllabus for our Algebra 1 course, and I understand the expectations and requirements. I understand the rules and policies that are in the student handbook are also applicable in this course.

**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### ***Ideas/Questions/Comments area:***

**1.**

**2.**

**3.**