



Course Syllabus

Course Name: **Algebra 2**
Room: **1**
Period: **5**
Google Classroom Code: **26s35rmu**

Teacher: **Mrs. Summer Labog**
Email Address: slabog@paparts.org
Prep: **Period 6**

Welcome to Algebra II S.Y. 2025 – 26!

Course Overview:

Algebra 2 builds on the foundational concepts of Algebra 1 and Geometry. Students will deepen their understanding of functions, polynomials, rational expressions, complex numbers, logarithms, sequences and series, and quadratic equations. The course also prepares students for Pre-Calculus and standardized testing (e.g., SAT, ACT).

Course Objectives:

By the end of this course, students will be able to:

- Analyze and graph different types of functions (linear, quadratic, polynomial, rational, exponential, and logarithmic).
- Solve equations and inequalities involving radicals and complex numbers.
- Understand and apply the Binomial Theorem and sequences and series.
- Use matrices and systems of equations to model and solve problems.
- Interpret and analyze data using statistical methods.

Key Principles:

- ✓ Everyone can learn math and the only way to *learn it* is to *do it*.
- ✓ Math is based in the real world. Everything around you is mathematics.
- ✓ There is more fun in learning math. There is no such thing as boring mathematics.
- ✓ Questions are important. Do not be afraid to ask. Explore to learn more.
- ✓ People learn from their mistakes, don't be afraid to make them.
- ✓ Try your best—even when it's hard.

What I Expect of Students:

- To come to class every day on time prepared to work and learn.
- To put forth maximum effort to be successful in the classroom and master the content.

- To participate actively in the lessons whether individually, in pairs or in groups.
- To adhere to all school rules in the classroom.
- To be kind, respectful, responsible, reliable, a role model.

What Students Can Expect of Me as a Teacher:

- To create a positive learning environment where all students feel safe to try new things, take risks and express themselves.
- To be fair and treat all students equally.
- To present content material in a manner that will allow all students to learn.
- To provide additional support in and outside of the classroom to ensure students could achieve mastery.

Required Materials (to bring every day):

1. **2 Pocket Folders** – to put worksheets and review packets.
2. **1 Spiral Notebook** – It is very important to take down notes.
3. **Pencils or Pens** – It is recommended to use pencils so that it is easier to correct mistakes.
4. **Chromebook** – for online work (IXL, Google Classroom, etc.)

Materials Provided:

- ✓ **Calculator** – There's a calculator number designated for each student which will be used for the entire school year. Students are not allowed to use any other calculator number.
- ✓ **Textbook** – Prentice Hall Algebra 1 (optional)
 - ❖ Please note that all materials are being loaned and should remain in good condition. If you lose these materials or if they are damaged when it is time to return them, you will be charged the replacement cost.

Grading Breakdown:

40% - Homework/In-Class work (Worksheets, IXL)
25% - Quizzes
25% - Tests
10% - Bell Ringers/Exit Tickets/Participation/Notebook Checks

Semester 1 - 40% = 1st Quarter Grade; 40% = 2nd Quarter Grade; and 20% = semester final exam (80%)/EOC(20%)

Semester 2 - 40% = 3rd Quarter Grade; 40% = 4th Quarter Grade; and 20% = year-long final exam (80%)/EOC(20%)

** Late work is accepted but penalized by 15% off the final assignment grade. If the work is more than one week late, the highest possible grade is 60%.*

** Tests will be announced several days in advance. Quizzes will be given periodically and maybe given at any time **unannounced** since they serve as an indicator of daily learning.*

**Students are expected to demonstrate mastery at 80% as math is a subject that builds on prior skills. If a student gets below 80% in quizzes/tests, he/she needs to retake the quiz/test.*

**If mastery is not demonstrated, students will participate in remediation to relearn the concepts and then retest over that standard/skill. It is remediated during Targeted Assistance during the school year.*

Absences:
If a student is absent on the day of a quiz or test, he or she must schedule the makeup for the next day. A student has one day for each excused day absent to make up missed assignments. If an assignment is due the day a student is absent, the assignment is due the day the student returns. For absences that exceed one day, the student will have at least as much time to do makeup work as the number of days of class absence. Excessive absences of 10 or more may result in a loss of credit for high school students.
Tardiness:
If a student arrives after the tardy bell has rung to begin the period, he/she will be considered tardy to class. If a student arrives 15 minutes late, this is considered Absence Unexcused Truant (AU). If the student has a pass, the pass should be given upon arrival to class.
Restroom:
One student at a time may use the restroom. Students are given a PANDA Student Pass. If a student is out for more than five minutes, office staff will be notified.
Electronics Policy
The use of cellphones or other electronic devices is not permitted during class except when explicitly directed by the teacher. Please make sure these devices are kept in the COW at the slot labeled with your number at the beginning of class. If they present a disruption, please see the sequence of offense (monthly) below: 1 st – verbal warning 2 nd – will be taken and held by the teacher until the end of the class. 3 rd – will be taken and held by the office staff until the end of the school day. 4 th – will be taken and only parents can get the device from the administration.
Dismissal:
Students should remain in their seats until the bell rings. Ensure that desks and chairs are in their original position; keeping the area neat and clean.
Discipline Procedure:
Failure to adhere to school rules in the classroom will result in appropriate disciplinary action. Please review Student Handbook for further details regarding discipline and the school's attendance policy.



Key Units of Study

Approx. Dates	Sem 1
August (Wk 1-3)	Function Concepts, Linear Equations
Aug-Sept (Wk 4-6)	Linear Inequalities and Functions, Systems of Linear Functions
Sept (Wk 7-9)	Two-Variable Linear Inequalities, Absolute Value Equations and Inequalities, Absolute Value Functions, Piecewise-Defined Functions
Oct (Wk 10-12)	Real and Complex Numbers, Polynomial Operations
Oct-Nov (Wk 13-15)	Factor Polynomials, Quadratic Functions
Nov-Dec (Wk 16-18)	Quadratic Equations and Inequalities, Systems of Linear and Quadratic Equations
Dec (Wk 19-20)	Final Exam Review/Final Exams
Approx. Dates	Sem 2
Jan (Wk 1-3)	Polynomial equations and functions, Radical expressions
Jan-Feb (Wk 4-6)	Radical functions and equations, Rational exponents
Feb (Wk 7-10)	Function operations, Inverse functions, Function transformations
Mar (Wk 11-12)	Rational functions and expressions, Variation
Mar-Apr (Wk 13-15)	Exponential functions, Logarithms, Logarithmic functions
Apr (Wk 16-17)	Parabolas, Circles
May (Wk 18-19)	Final Exam Review/Final Exams

Note: The syllabus may be modified as needed.



Contact & Support

I am committed to helping every student succeed in Algebra 1. If you have any questions or concerns throughout the year, please contact me by email (slabog@paparts.org) or arrange a meeting. Tutoring and extra help will be available through Targeted Assistance Class - 8th Period.

Syllabus Acknowledgement

Please read and discuss this syllabus together. Then sign and return this portion to indicate your understanding of the course expectations.

Student Name (print): _____

Student Signature: _____

Date: _____

Parent/Guardian Name (print): _____

Parent/Guardian Signature: _____

Date: _____

Parent/Guardian Email or Phone (optional):
