# Algebra 2

**Teacher:** Ms. Boyhan/Mr. Knights (Period 3,4)
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**Dear Students and Parent/Guardians:**

Welcome to Algebra 2! We are looking forward to teaching you as we spend time exploring sequences and functions, polynomial functions, rational functions and equations, complex numbers and rational exponents, exponential functions and equations, transformations of functions, trigonometric functions, statistical inferences and conditional probability. Please find below all the information you need in order to be successful in Algebra 2 this year.

**Year Essential Question:** *How do we use Algebra to understand ourselves and where math fits in our lives?*

**Marking Period Breakdown** (*Note: This may be adjusted.*)

| | | |
|---|---|---|
| **SEMESTER #1** | Sept 4th – Sept 22nd | **Unit #1: Sequences and Functions**<br>*Why are being able to identify patterns important in mathematics?*<br>*How does identifying patterns help us make efficient predictions?*<br>*etc…* |
| | Sep 25th - Oct 22th | **Unit #2: Polynomial Functions**<br>*What is a polynomial function?*<br>*How do polynomial functions change with addition, subtraction, multiplication and division? etc…* |
| | Oct 23rd – Nov 10th | **Unit #3: Rational Functions and equations**<br>*What is a rational function?*<br>*How do rational functions behave?*<br>*How do we graph rational functions? etc…* |
| | Nov 12th – Dec 9th | **Unit #4: Complex Numbers and Rational Exponents**<br>*What are complex numbers?*<br>*What are rational exponents? Etc…zsz Ω xms xmxxx mxxx* |
| | Dec 10th – Jan 16 th | **Unit #5: Exponential functions and equations**<br>****Note* semester 2 begins January 27 th 2026**** |
| **SEMESTER #2** | Jan 27th – Feb 24th | **Unit#6 Transformations of Functions**<br>*How do functions move?*<br>*What parts of the function affect its behavior? etc…* |
| | Feb 25 th – April 1st | **Unit #7 Trigonometric Functions**<br>*What are trigonometric functions?*<br>*How do we use sin, cos, tan? etc…* |
| | April 13th -May 15th | **Unit #8 Statistical Inferences**<br>*Why do we use statistics?*<br>*Are statistics important? etc…* |
| | May 16th - June 26th | **Unit #9 Conditional Probability**<br>*How does probability impact outcome? etc…*<br>**Regents Review** |

**Classroom Expectations:**

All students have the right to learn in an environment which will provide them with the best chance of success in this class. ***No student has the right to interfere with the learning of any other student***. The following are classroom expectations for you to be successful in Algebra.

1. Be on time, on task & prepared to learn EVERYDAY.
2. Respect the teacher, the classroom, other students and yourself.
3. Be responsible for your own learning.
4. Clean up after yourself and your peers.

| **Entering the Room –** | **During Class –** | **End of Class -** |
|---|---|---|
| 1. Come in quietly on time.<br>2. Pick up all supplies you will need for the day<br>3. Sit in assigned seat<br>4. Take out homework<br>5. Begin working on Warm Up | 6. Treat classmates and teachers with dignity and respect<br>7. Listen while others are speaking.<br>8. Raise hand<br>9. Stay on task<br>10. Participate in discussions<br>11. Use language that is respectful of classmates' and teachers' gender, race , national origin, language and sexual orientation | 12. Put all supplies away<br>13. Submit Exit Slip and/or classwork.<br>14. Wait to be dismissed |

**Absences:**
If you are absent from class, it is **<u>your responsibility</u>** to get any assignments you missed and the notes. These will be available in a container in the front or back of the classroom. Ask Ms. Boyhan or Mr. Knights. You MUST turn these in within **5 days** after returning to school.

**Grading Policy -**We are grading in three domains. Academic Mastery, Academic Work Habits, and Contribution to community.

**Academic Mastery**
The following is how your grade will be calculated each marking period:

- ***60% Test, Quizzes, and Projects***
  - *<u>TEST CORRECTIONS:</u>* Test corrections are allowed to be completed up to one week after the test is given back. You can receive ½ the points back for each question.
  - *<u>RETAKE POLICY:</u>* You are allowed to retake <u>tests and quizzes</u>. HOWEVER, you ***<u>MUST</u>*** conference with Ms. Boyhan and Mr. Knights before retaking the test **AND** complete test corrections. Once you receive the test back, you have one week to retake it.
- ***20% Classwork***
  - This includes exit slips, binder checks and any other assignments that are collected and graded.
- ***10% Assignment Completion***
  - Work will be assigned that you should complete outside of class. You are expected to complete ALL assignments. They are crucial in order to be successful in Algebra 2.
  - *Think about when you play a sport or an instrument, you get better by practicing. In Algebra 2, completing assignments is of utmost importance; if you want to be successful in this class, you have to practice! STUDENTS WHO STUDY AND GO OVER THEIR WORK, END UP WITH A HIGHER GRADE IN THIS CLASS.*

- ***10 % Individual and Group Class Engagement***
  - You will receive 25 points a week (5 points each day).
  - Your participation points are based on how well you follow the classroom expectations each day. *Failure to maintain classroom expectations means a loss of participation points.*
    **+1** On time + prepared for class (In seat when bell rings with homework/pencil out)
    **+1** Do Now
    **+2** Participation (Raise your hand, answer/ask a question, on task, collect/pass out materials)
    **+1** Exit Ticket

The following is how you will be graded at the end of each semester (Fall 3 and Spring 3)(can be adjusted):

| ***Semester 1*** | ***Semester 2*** |
|---|---|
| • *30% Fall 1* | • *30% Spring 1* |
| • *30% Fall 2* | • *30% Spring 2* |
| • *30% Fall 3* | • *30% Spring 3* |
| • *10% Semester 1 Final* | • *10% Semester 2 Final* |

**Extra Help:**
You are encouraged to come for extra help when necessary. I am available at the following times:
- During elective periods (with permission for your teacher)
- Before period 1 in room 416 (Knights) 442 (Boyhan)
- By appointment

We look forward to working with you this coming year and wish you a successful year. Please review the syllabus with a parent or guardian and return just this page to me by **Monday, September 8th** for your first homework grade!

- Ms. Boyhan & Mr. Knights

**Student's name (print):** _____

**Student's signature:** _____

**Algebra 2 period:** _____

**Parent/Guardian name:** _____

**Email:** _____

**Cell:** _____

**Parent/Guardian signature:** _____

**Notes to teacher:**