

# Advanced Algebra and Trigonometry

Syllabus 2017-2018

TK - [mr.kyale@comlinkshs.org](mailto:mr.kyale@comlinkshs.org)

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## **Course Description:**

Advanced Algebra and Trigonometry builds on math skills from Algebra. We will be focusing on advanced algebraic models and functions. And we will relate these ideas to real-world situations and applications. Throughout the course, you will use technology to build foundational skills, solve problems, and visualize math. You will engage in problem solving both collaboratively and independently.

## **Course Objectives:**

Students will:

- Practice professionalism.
- Use cognitive skills such as critical thinking, problem solving, and ethical analysis
- Construct viable arguments and critique the reasoning of others.
- Understand that mathematics is a tool for organizing ideas and addressing questions
- Use algebraic models to analyze real-world phenomena
- Prepare for success on the PSAT and SAT

## **Materials required: You must have these materials by Monday, September 11**

- at least one writing utensil, preferably a pencil
- A notebook for this class only
- A folder for this class only

## **Units:**

- 1) Exponents and exponential functions
- 2) Quadratic functions
- 3) Polynomials
- 4) Data and Statistics
- 5) Angles, triangles, and trigonometry

## **Ideas for if you need help:**

- 1) Check your notes for similar examples or helpful formulas.
- 2) Ask a friend to help you get started, but don't copy their work!!!
- 3) Go to [www.khanacademy.org](http://www.khanacademy.org) and search for the topic we're studying. You can watch a video or try some practice exercises to help you feel more comfortable with the topic.
- 4) Email Ms. Meyer, Ms. Rocque, and TK with your specific question.
- 5) TK is almost always there at 7:30 in the morning on Tuesday, Thursday and Friday.
- 6) Arrange a time to stay after school with one of your teachers.

## **Academic Integrity:**

- Students who have exactly the same work will both receive 0s.
- Students who are cheating on quizzes, tests, and exams will also receive a 0.
- Plagiarism will also result in a 0 on that assignment.
- If you are helping your friend, make sure that you don't tell them the answer. You can show them where they made a mistake, you can say that you got a different answer, you can ask questions, you can talk through examples together. If you don't know how to help without letting them copy your work, have them go ask TK for help.

## **Grading:**

Grades will be determined using the following percentage breakdown:

Participation: 15%	A = 100% to 90%
Homework: 15%	B = 89% to 80%
Mastery: 50%	C = 79% to 70%
Growth: 10%	D = 69% to 60%
Final Exam: 10%	F = 59% and below

### ***Curriculum Vitae (course of life or resume):***

To practice professionalism you will keep track of accomplishments in class. To earn honor's credit, this document must show a record of your excellence.

#### ***Participation:***

This part of your grade includes Do Nows, explaining math problems to the class, and completing in class assignments individually and in groups.

#### ***Homework:***

Homework assignments will be given frequently. Your homework must be ready to turn in at the beginning of the class period.

#### ***Mastery:***

Your mastery grade will include mental math objectives, professional objectives, and content-related objectives for the current unit. These grades will come from quizzes, tests, projects, conferences, and other opportunities for you to show that you have mastered the content. Some standards will continue across units.

#### ***Growth***

This category refers to how much improvement a student demonstrates on a set of college- readiness related-standards, as measured by periodic "interim exams" and recorded in the Curriculum Vitae.

#### ***Final exam***

The final exam will be a cumulative assessment at the end of the semester based on standards assessed throughout the semester. There will be no retakes on the final exam.

**Absences:** If you are absent, you must copy the notes from someone on your own time- NOT during class. You also need to get the work you missed from TK.

- Students with **unexcused** absences will receive a zero for any assignments due the day of your absence as well as any participation or homework given the day you missed.
- Students with **excused** absences must turn in assignments due the first day of your absence the day you return, or they will be considered late. You will have one day for every day missed to complete all assignments given during your absence.

### **Late Work:**

- Write TK a note if there were exceptional circumstances. Give advance notice by email if possible.
- Late homework will receive half credit within one day of the due date with no credit after one day.
- Major assignments will be accepted late with a **10% penalty each day** up to 10 days (two school weeks) after the due date.

**DUE THURSDAY, SEPTEMBER 7**  
**Advanced Algebra Syllabus Agreement**

Please read the entire syllabus and ask questions if you do not understand something. Then have your parent/guardian fill out this information and sign below.

Parent/guardian name: \_\_\_\_\_

Relation to student: \_\_\_\_\_

Phone number: \_\_\_\_\_ Is this a cell phone? (circle) Yes No

Email address: \_\_\_\_\_

Language spoken by guardian contact:

How much English do you speak?	(circle) None	Some	A lot
¿Cuánto inglés hablas?	(circulo) Nada	Poquito	Mucho

How much Spanish do you speak?	(circle) None	Some	A lot
¿Cuánto español hablas?	(circulo) Nada	Poquito	Mucho

What is the best time of day to reach you? \_\_\_\_\_

Do you prefer to be contacted via phone or email? \_\_\_\_\_

I have read this syllabus and I understand its contents. I agree to adhere to the policies and expectations of this class.

\_\_\_\_\_  
Student name

\_\_\_\_\_  
Student signature

\_\_\_\_\_  
Parent/guardian name

\_\_\_\_\_  
Parent/guardian signature

