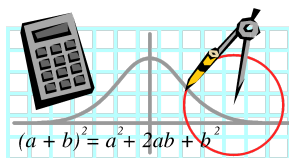


St. Pius X Catholic School Algebra 1 Syllabus

Mr. Malone (2020-21)



Welcome to the 8th grade at St. Pius X Catholic School! I am very glad to see you and I look forward to being your teacher! This is an advanced course in Algebra 1/Mathematics 1. It is your job to keep up and come in for extra help if you need it. The expectation is that you will work very hard in this class. At the minimum, expect 2-3 Khan Academy assignments per night. If you complete your assignments during class, you should proceed to work on your Khan Academy Course Challenge and/or ALEKS Pie.

Algebra 1 Course Content:

The course is divided into the following 20 units of study:

Unit 1: Algebra Foundations

Unit 2: Solving Equations and Inequalities

Unit 3: Working With Units

Unit 4: Linear Equations and Graphs

Unit 5: Forms of Linear Equations

Unit 6: Systems of Equations

Unit 7: Inequalities (Systems and Graphs)

Unit 8: Functions

Unit 9: Sequences

Unit 10: Absolute Value and Piecewise Functions

Unit 11: Exponents and Radicals

Unit 12: Exponential Growth and Decay

Unit 13: Quadratics: Multiplying and Factoring

Unit 14: Quadratic Functions and Equations

Unit 15: Irrational Numbers

Unit 16: Scatterplots, Data Distributions, and Two-Way Tables

Unit 17: Performing Transformations

Unit 18: Transformation Properties & Proofs

Unit 19: Congruence

Unit 20: Analytic Geometry

Your Grade Will Be Based On the Following:

ALEKS: You are responsible for completing 100% of the Algebra 1 Pie by the end of the year. Your ALEKS work is divided into 12 modules.

Due Dates for ALEKS Modules:

September 21st - Module 1

October 12th - Module 2

November 2nd - Module 3

November 20 - Module 4

December 17th - Module 5

January 25th - Module 6
February 15th - Module 7
March 8th - Module 8
March 29th - Module 9
April 19th - Module 10
May 10th - Module 11
May 24th - Module 12

Homework: Most homework will be completed online at www.khanacademy.org. You will be given a unique username and password. You are encouraged to do the homework until you have 100% correct. You can redo the homework as many times as you need to BEFORE the due date. After the due date, your homework will not be checked.

Khan Academy Course Challenges: In Algebra 1 you will complete 3 Khan Academy Course Challenges. The first trimester, you will work on and complete 100% of the course challenge for 6th grade math. The second trimester, you will work on and complete 100% of the course challenge for 7th Grade Math. Finally, the third trimester, you will complete 100% of the course challenge for Algebra 1.

Due Dates for Course Challenges:

November 12th - 6th Grade
February 18th - 7th Grade
May 24th - Algebra I

Quizzes: Quizzes will be completed online through Khan Academy. You will have a limited amount of time in class to do quizzes. It's important to practice the homework until you have achieved mastery. If you don't you will most likely not have enough time to finish the quizzes. Quizzes will always be the day before the unit test and must be completed before you leave class. Notes are not allowed to be used during quizzes.

Tests: Tests will be completed online at Khan Academy. You may repeat the test as many times as necessary, but only during the class period. If you miss a question, do NOT intentionally miss the rest of them so that you can start over fresh. THIS WILL MAKE IT HARDER FOR YOU TO FINISH YOUR COURSE CHALLENGE. Notes are not allowed to be used during tests.

Assessments: You will also be given 3 major benchmarks throughout the year to determine your progress.

Algebra 1 Grading Policies:

Your trimester grade will be calculated as follows:

- 20% - ALEKS
- 20% - Homework
- 20% - Khan Academy Course Challenge
- 20% - Quizzes
- 20% - Tests

Algebra 1 Course Policies and Procedures:

A. Class Rules

- Respect yourself, your classmates, and the teacher in your actions and words.
- Follow directions the first time they are given.
- Raise your hand and wait for permission to speak.
- Be in your seat when the bell rings.
- Bring all of your materials to class every day. (Materials are listed in the syllabus.)

B. Consequences of Following Rules = Merits

These will be given for going above and beyond what is normally expected of you as a student at St. Pius X.

- Being a positive role model
- Good behavior
- Academic performance
- Any other outstanding act deemed appropriate
- Following the above rules on a consistent basis

C. Consequences of Not Following Rules = Demerits

These will be given for negative behaviors such as:

- Not respecting yourself, your classmates, and the teacher in your actions and words
- **Interrupting the teacher or any student while they are speaking**
- Not following directions the first time they are given
- Being late to class
- Not bringing all of your materials to class every day
- Anything else that violates the school handbook

D. Notification to Parents of Merits/Demerits

You are required to carry your planners with you throughout the day. Your parents/guardians are required to sign them if you receive demerits. If you are in my homeroom, I will check for signatures every Friday. Your planner should be open to the merit/demerit page when you come to class every day.

E. Detentions

Upon receiving an automatic 10 demerits or the 10th accumulated demerit, you will be assigned a detention.

F. Academic Honesty

It is expected that students will use genuine, sincere, fair, and honest means for the completion of all work. Students found copying or cheating in any way will receive an automatic zero and parents/guardians will be notified. The student will also receive an automatic 10 demerits and a detention.

G. When you arrive to class, immediately begin working on your Khan Academy Course Challenge or an ALEKS Module.

H. Take notes daily during lesson instruction. The rule for note taking: *If I write it down, it is important!* Use these notes as your guide to complete homework assignments and study for quizzes & tests. You can take notes in pen or pencil. Your notebook should be open when class begins.

I. Do your homework - In order to learn math skills, you must PRACTICE the skills.

J. Study for all quizzes and tests. Make flash cards, review your notes, and do extra practice problems in order to make sure you understand each lesson.

K. Come to class ready to work and learn everyday and try to have a positive attitude about learning mathematics!

L. All of the homework you complete must be done in your notebook. I will check your notes periodically to make sure you are doing this.

M. When you come to class, please enter the room quietly.

N. Every day before you leave, please push your chair in and clean up after yourself.

O. What do I do if I am late to class? When you are tardy, enter the room quietly and open your planner to the merit/demerit page.

P. How do I get help from the teacher if I don't understand something? If you need assistance or help from the teacher, please raise your hand and wait.

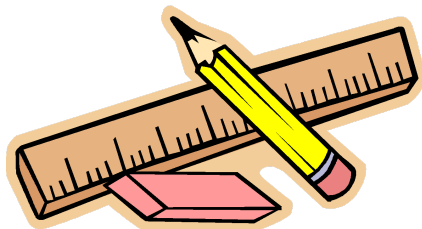
Q. How do I participate in classroom discussions? If you wish to speak during a discussion, raise your hand and wait to be called on.

R. What do I do if I finish my homework early? If you finish your homework early, always work on your Khan Academy Course Challenge or ALEKS Modules.

S. What do I do if announcements are being made over the intercom? If announcements are being made over the intercom, immediately stop what you are doing (e.g. talking) and listen.

T. Should I say please and thank you? Any kind of request should always be prefaced with the word "please" and followed up with the words "thank you." Always. Be classy.

U. When can I use the restroom? How do I ask to use the restroom? You will not be permitted to use the restroom during teaching/discussion time unless it is a real emergency. You must use the sign out sheet by the door before you go. Use two fingers for, "I wish to use the restroom."



Materials Needed: You will need the following materials for this class:

- Pencils
- Pens
- Ruler
- Notebook (You may need more than one during the school year.)
- Book to Read
 - Eraser
 - Portable Pencil Sharpener
 - Earbuds
 - Folder

****Bring all of these materials to class EVERY DAY!!!**

Attributes of a Successful Algebra Student:

- ❖ The student makes sense of problems and perseveres in solving them.
- ❖ The student reasons abstractly and quantitatively.
- ❖ The student constructs viable arguments and critiques the reasoning of others.
- ❖ The student models mathematics.
- ❖ The student uses appropriate tools strategically.
- ❖ The student is precise.
- ❖ The student looks for and makes use of structure.
- ❖ The student looks for and expresses regularity in repeated reasoning.



Below are several homework strategies parents can use to help their student improve mathematical performance:

- ❖ Help your student find a quiet, consistent place to complete homework and study. Eliminate any distractions to your student such as the television, phone, video games, etc.

- ❖ Develop a consistent daily homework routine. Help your student stay organized by encouraging the use of his or her daily planner to document daily assignments and upcoming assessments.
- ❖ Review and practice basic facts with your student. Use flash cards, math games, and online interactive websites to give your student the opportunity to reinforce important math skills.
- ❖ Teach your student to write and solve problems neatly. 25% of all errors in solving math problems can be traced back to sloppy number writing.
- ❖ Encourage your student to do more problems than those which were assigned. Having your student do extra problems will strengthen skills and build confidence.
- ❖ Stress the importance of your student learning the vocabulary of mathematics, as well as good problem-solving skills. If your student is working on a word problem, for example, suggest that the student draw a picture or diagram in order to describe and solve the problem.
- ❖ Monitor your student's progress. Touch base with your student to ensure homework has been completed, and communicate with your student's teacher if concerns or problems arise.
- ❖ Make math a part of your student's daily life. Mathematics will be more meaningful when your student understands how important math is in real-world situations.

Teacher Contact Information

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