



BURKE Algebra 2 / Trigonometry Course Syllabus

Freedom High School
2018-19 school year
Instructor: Mrs. Burke
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Classroom: P-12

Course Description & Standards

Algebra 2 builds on work with linear, quadratic, and exponential functions extending to logarithmic, polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, competently manipulate algebraic expressions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms.

Students will work on the eight standards for mathematical practice throughout the course.

Students will progress through the Common Core Standards as outlined for Algebra 2. This includes N-CN 1-2, 7-9, A-SSE 1, 2, 4, A-APR 1, 2-7, A-CED 1-4, A-REI 2, 3.1, 11, F-IF 4-9, F-BF 1, 3, 4, F-LE 4, 4.1, 4.2, 4.3, F-TF 1, 2, 2.1, 5, 8, G-GPE 3.1, S-ID 4, S-IC 1-6, S-MD 6-7.

Suggested Materials

- Graph paper notebook – for notes, homework and classwork
- Ruler, glue stick, scissors, pencils with eraser, two different color pens and highlighters
- Calculator (TI-84 graphing calculator) recommended
- Algebra 2: A Common Core Curriculum; Big Ideas Math, 2015, adopted September 2014 – keep at home
- Student journals – we will keep them in the classroom

Final Marks

A+ 98-100%
A 90-97.99%
A- 89%
B+ 88%
B 80-87.99%
B- 79%
C+ 78%
C 70-77.99%
C- 69%
D 59.1-68%
D- 58.5-59%
F 0-58.4%

*If any of the above supplies represents a financial burden, please talk to me before or after school and we will work something out.

Grade Weights

Semester

90% Assessments

Quizzes, Tests, Final, Projects.

10% Participation

Notes, Classwork, Homework.

Grades will be available and updated periodically through our AERIES program (parent portal) at Freedom's website. If it is your first time contact your building secretary for the 10-digit code.

Homework

Homework is an important component of a successful math education. I will be using a combination of textbook and online homework. With the development of the new high stakes tests which are given on-line and emphasize explanations

Prerequisite:

Successful completion of Algebra I & Geometry

Credit:

5 math units per semester

Classroom Rules

Students will be part of creating a set of norms and they must agree to comply with it and all of Freedom High School's rules and expectations.

*Should a student behave in such a way that the learning environment is severely disrupted; the student will be removed from the classroom immediately.

My goal is to create a healthy, safe learning environment for all my students.

Course Goals

The student will:

1. Develop an attitude of curiosity along with an ability to probe, experiment, make conjectures, and persevere in order to solve challenging abstract and real-world problems.
2. Work extensively with polynomials including operations of polynomials and finding zeros of polynomials..
3. Expand their understanding of trig ratios and circles including use in the coordinate plane.
4. Model situations with appropriate functions. Additionally, students will understand that transformations have the same effect regardless of the type of function.
5. Understand a variety of methods if data collection and their impact on what conclusions can be drawn, as well as how the data relates to visual representations.

Attendance Policy

Students must attend class on a daily and timely basis and will be documented. Detentions will be at the discretion of building offices.

to solutions, it is important for students to feel comfortable solving mathematical problems on-line and explaining their solutions. Khan Academy and Big Ideas, offers thousands of Common Core-aligned practice exercises and instructional videos stretching from counting to calculus. Students will work at their own pace on their personalized learning dashboards, and I will receive detailed progress reports that help me meet each student at their level. This homework can be completed on computer, smart phone or tablet. Immediate feedback will be provided by the computer. This program provides both the teacher and the students with immediate feedback on student understanding. **If a student does not have access to a computer, they may use the math lab, library or teacher's classroom during study hall, a free period, lunch or before and after school.**

Zero Tolerance Policy

We have had many problems with plagiarism please check your child's smartphone for evidence of other students' work. When a student is taking an exam, they will be asked to put away their electronic devices inside their bags and or give it to the teacher to hold on until everyone in the class is finished with the assessment. We have a **ZERO** tolerance policy and students will receive an automatic score of 0 and a referral if evidence of cheating is found, or an electronic device is at their desk or on their person. (*Category 5 of student conduct disciplinary guidelines*)

Late Work

Late assignments will be accepted at the teacher's discretion. It will be graded and entered on the gradebook the last week of the grading period when grades are due.

Make ups / Retake Exams

Performance tasks, projects, common assessments and finals cannot be made up, but target quizzes can. Target quizzes allow the student multiple opportunities in class to improve skills without penalizing for taking longer than others to understand a complex concept. A target could be any topic we have learned about in class. Each target is graded individually on a rubric of 1-5, that later translates to weighted percentages on the gradebook. Targets are cycled through tests so that each target appears two times. Each target is scored individually two times. Each time a target is taken is an opportunity to improve the grade on that target and thus in the class. For example: Let's say you got a 4 on the first target #2A and a 5 on the second target #2A. Since you improved your grade, I will replace the 4 (83%) that was previously in the gradebook with the 5 (100%) you now have. The opposite, however, is not true. For example, if you scored a 5 on the first target #2A and then 4 on the second target #2A, you get to keep both scores, and their average scores are a 4.5 (92%).

Important: If after the two target quiz opportunities you are given in class you still do not feel you have sufficiently demonstrated your skills, you may arrange a time before or after school with me to retake the target again. These need to be pre-arranged and they may NOT occur the week when grades are due. Target quizzes are not arranged for absent students since there will still be one other opportunity in class for a student to retake the target even if they are absent.

Help

If assistance with homework or lessons is needed, students should seek help from me, the Math Lab during class time or the HELP Program afterschool M-TH in the library from 3:15-4:30pm.

Lessons are based on "Big ideas math" Algebra 2 a common core curriculum textbook. To see the textbook online for FREE and have additional resources, go to www.bigideasmath.com

These are all free resources for Freedom students and put in place to support anyone who needs extra support. A peer tutor list is also available upon request. The fee for these services must be arranged with the tutor.

Communication

In addition to my voice mail and email, I will be using a service called Remind. I require students to sign up with their cell phone or email and parents have the option to join. Remind is a free, safe, easy-to-use communication tool that helps teachers connect instantly with students and parents. Phone numbers are always kept private so information is safe and secure. Teachers, students, and parents have easy access to their message history, and can also use our reporting tools to flag conversations. Visit my website for our unique code for your child's class.

Dear Parents and Students:

I am very excited to be teaching Algebra 2 & Trigonometry. Please read the syllabus, which contains a description of the course, information about grading, contact information, materials needed, classroom expectations, behavior and routines. Parents: Please take the time to read it with your child *before* you sign this paper acknowledging your understanding and cooperation in helping your child succeed in our classroom. I will be using the school records to communicate with you. Please contact your Childs' building office if anything has changed.

Sincerely,

Mrs. Burke

STUDENT :

Print Student Name: _____ Class Name: _____ Period: ____

Student: I will comply with all classroom policies, come to class prepared, and actively participate.

Signature _____ Date: _____

PARENT/GUARDIAN:

*A signature is important if required - It must be the same when signing notes. Include all allowed signatures.

Title: Mom, Dad, Grandma, Grandpa, Aunt, Uncle, Foster parent, etc.

Name: _____ Title: _____

Signature: _____

Name: _____ Title: _____

Signature: _____



Parent:

1. Please share a unique characteristic about your child.
2. How does your child learn math best? Is there a unique situation I should know about your child?
3. Questions for me/ E-mail me burkek@luhsd.net, or write below.

Discipline contract

Student Name: _____ Period: _____ Algebra 2 & Trig BURKE P-12

Dear student, please copy each rule on your spiral notebook:

1. Be in assigned seat, quiet, and with materials when the bell rings.
2. ***Will follow all teacher instructions and suggestions. Includes bathroom privileges.***
3. Will complete work assigned during class.
4. Will not bother or disrupt the other students in the classroom.
5. Will talk only when recognized by or given permission from the teacher.
6. Will remain in assigned seat until excused at the end of the period.
7. Will not be tardy to class.

Consequences:

1. One warning.
2. I will write your name down on a piece of paper or the board and I will need you to stay after class for a detention of however long teacher deem appropriate and we can call your parent. If no one is available, we will leave a message and I will need a note the following day from your parent that they received the voice mail or email.
3. If you do not wish to stay then I will write you a referral and you can discuss the event with your assistant principal.

Student: Name: _____ Signature: _____

I agree to follow Mrs. Burke's classroom rules, especially the ones listed above, and I am aware of the consequences.

Parent: Name: _____ Signature: _____

I have read the consequences and I plan to have a voicemail or email available to receive messages from Mrs. Burke.

Date: _____