Algebra II
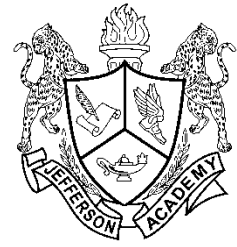Mrs. Katie "Pell" Pellouchoud
303-465-7678
Email: kpellouchoud@jajags.com
Office Hours: T/Th 7:30-8:15

2018 - 2019 Syllabus

Strength in Numbers

The mission of the Jefferson Academy Math Department is to foster critical thinking and logical reasoning through inquiry, investigation, and discovery using mathematical practices.

Course Description:

In this course students will continue their pursuit of formal mathematics. Students will explore algebra beyond its elementary aspects. Topics will include: number sets, real and imaginary numbers, equations and inequalities, linear relations and functions, systems of equations, quadratic relations and functions, exponential and logarithmic functions, polynomials and polynomial functions, statistics and probability and trigonometric functions. Please see the attached schedule for specific dates.

Content Coverage:

Chapter 1: Expressions, Equations, and Inequalities

Chapter 2: Functions, Equations, and Graphs

Chapter 3: Linear Systems

Chapter 4: Quadratic Functions and Equations

Chapter 5: Polynomials and Polynomial Functions

Chapter 6: Rational Functions and Rational Exponents

Chapter 7: Exponential and Logarithmic Functions

Chapter 8: Rational Functions

Classroom Expectations and Policies

Classroom Conduct:

R –respect – I expect all students to be respectful and to act in a way that demonstrates good character. Remember that you are responsible for your actions.

E –encourage - each other to learn. Belittling of students and teacher will not be tolerated

S –supplies - Bring your supplies to class each day.

P –punctuality - It is rude and disrespectful for students to walk into class late. (Follow the tardy policy)

E –energy- Come to class with positive energy and be willing to try what Mrs. Pell throws at you.

C –confidence- Sometimes math can be difficult but you need to have confidence in yourself in order to achieve.

T –tidiness- It is extremely important that you keep your notebook organized and your work area clean. This will help you succeed in math.

Substitute Policy:

Any student that is reported by a substitute teacher to have been a disruption to the class in any way will automatically be assigned to Friday School.

Tardy Policy:

Students are expected to be present, prepared and in assigned seats before the bell finishes ringing. Students not in their seats at that time are considered tardy. Students who are unexcused tardy will be retained after class to wipe down the classroom desks.

Cell Phone Policy:

Personal cell phone use will not be allowed at any time during class. This includes phone calls, texts, games, music, and any other apps. Failure to adhere to this policy will result in the phone being confiscated and given to the front office. The phone can be collected after school in accordance with the school-wide cell phone policy.

Cell phones may **NOT** be used as calculators.

Food/Drink Policy:

Food consumption will not be allowed at any time in the classroom unless required by a documented medical condition*. Food being consumed during class will be confiscated and disposed of. The only beverage to be consumed in the classroom is water. Other beverages must remain sealed or closed and put away or they will be confiscated and disposed of.

*Candy given as a reward may be consumed in class.

Failure to adhere to the policies and procedures listed above will result in consequences including, but not limited to, wiping down classroom desks, cleaning white boards, re-shelving textbooks, lunch detention, and Friday School.

Supplies

It is my expectation that you bring the following supplies to class each day.

Calculator (TI-84 is recommended)	Pencil(s)
Engineering paper **or** Graph paper	Grading pen
Folder for graded work	Spiral Notebook for notes

Optional Supplies

If your last name begins with:

- o **A-I:** chocolate variety candy
- o **J-Q:** non-chocolate variety candy
- o **R-Z**: Life Savers mints (or equivalent – no gum)

BYOD

Students will have on-line access to, and be required to use, Pearson Realize and MathXL. Assignments will be given in these programs throughout the semester and require an internet connected device to be completed. There are no devices available through the school. If a student does not have a device or is unable to borrow one, they will be required to complete their assignments at home.

Grading Policies

All assignments will be graded on a weighted system. Your grade will be based on exams, mastery assignments, and class work. In addition to chapter tests, a comprehensive final exam will be given at the end of the semester.

Grading Scale:

		Your overall grade will be based on the following:	
90 – 100 %	A	1. Work	5%
80 - 89 %	B	2. Mastery Assignments	15%
70 - 79 %	C	3. Assessments	65%
60 - 69 %	D	4. Final	15%
0 - 50 %	F		

Grades:

Students who earn an A in this course are exceptional students who meet or exceed the objectives of the course in addition to the expectations in the classroom. They complete their work on time with proficiency, quality, and creativity. They demonstrate an excellent and flexible understanding of the content and persevere through the challenges encountered throughout the course.

Students who earn a B in this course are above average students who meet the objectives of the course in addition to the expectations in the classroom. They complete their work on time with accuracy and demonstrate a solid understanding of the content presented in class.

Students who earn a C in this course are average students who meet the basic objectives of the course and the expectations in the classroom. They complete their work on time and meet minimum expectations.

Students who earn a D or F in this course have not met the objectives of this course or those in classroom.

Work (5% of your grade)

- **Chapter Work**

Practice problems for current content will be assigned daily in this class. These problems will be graded before the section quiz. The grades will be earned as follows:

Completeness. Students will receive one score for each work assignment based on completion.

Correctness. Students will also receive a score for the correctness of their work assignments.

All chapter work assignments will be due on the day of the unit assessment. **Late work is not accepted.**

If a student is unable to complete the work before the due date, an extension <u>may</u> be given on a case-by-case basis if the request is made **BEFORE** the due date.

- **Classwork**

There will be some assignments and projects that will be completed in class. Those will be graded based on participation, completeness and correctness. When appropriate a rubric will be provided.

<center>**<u>Mastery Assignments (15% of your grade)</u>**</center>

- **Mastery Assignments**

Students will be given Mastery Assignments (quizzes) throughout the semester. The Mastery Assignments are based on the essential skills that are required for the student to be successful at the next level of their mathematical career. The math department has collaborated to determine which skills are essential at each level. Mastery Assignments are assessments that students take that are focused on specific skills.

- Algebra II Mastery Topics:
  - Factoring
    - Quadratics; a = #,
    - Special cases – difference of squares
    - Cubic
  - Polynomial Functions
    - Classifying
    - Solving
  - Radical Expressions
  - Rational Expressions
- If a student does not pass the Mastery Assignment with an 80% or higher they will be given a new Mastery Assignment with new problems. This process will continue until the student has shown mastery with a grade of 80% or higher.
- Each mastery assignment is worth 25 points.
- Students who do not correct assignments until they have an 80% will receive **no** credit for the assignment.

<center>**<u>Assessments (65% of your grade)</u>**</center>

- **Quizzes**

Quizzes will be given frequently throughout the semester in order to measure students' understanding of the material. If an acceptable grade is not received on the first attempt, a second attempt may be made on a similar version of the quiz after the following have been completed:
  - Students will correct all problems missed on the quiz, showing all work and providing a brief explanation of their error.
  - Students will meet with the teacher to review their corrections.

- **Tests**

There will be a test at the end of each chapter. Tests will include material from earlier chapters, as well.

<center>**<u>Final Exam (15% of your grade)</u>**</center>

The final includes all material covered over the semester and is given at the end of the semester.

Grade Replacement

On the final examination, students will have the opportunity to replace their lowest test score with the score received on the final exam. For example, if a student received a 62% on the Chapter 3 test and then scores a 78% on the final, the 62% will be replaced by the 78%. Grade replacement DOES NOT apply to tests that were not taken.

- **Chapter Work/Classwork**
    - Excused absences: You are responsible for obtaining the material covered. Upon returning to school, you have two days to complete missing assignments. Work that is not made up will receive a score of zero.
    - Late work: Will not be accepted.
    - Make-up Work**:** All make-up work, including work assignments and assessments, are to be completed before or after class. Make-up work may be completed in class only if **all current assignments are completed with a passing grade**.
- **Assessments**
    - You have until the day before the chapter test to make up any missed quizzes. A quiz that is not made up before the test date will receive a score of zero.
    - You have one week from that date of your return to make up a missed test. A test that is not made up before the deadline will receive a score of zero.

Cheating

Cheating includes, but is not limited to, copying homework, sharing or receiving quiz or test answers, talking during a quiz or test, using unauthorized notes or books during a quiz or test, and turning in another student's work as your own. The consequences include a zero for that assignment and possible disciplinary action including, but not limited to, lunch detention, Friday School, or suspension.

Extra Help/Office Hours

I am available to help students during the following times:

- **Before school**: Office Hours are Tuesdays, Wednesdays, and Thursdays from 7:30 to 8:15a.m.
- **After school:** By appointment. Please e-mail me or see me after class to determine my availability for a specific day.

Class Website

The class website is a valuable tool with numerous resources to assist you with the content in this class. You can access the website at
https://jeffcojeffersonacademyhs.ss12.sharpschool.com/academics/teacher_websites/math/pellouchoud.

The website has the following resources organized by the section and chapter in the textbook:

- Class calendar
- Homework assignment & due date
- Link to MathXL
- Link to the on-line textbook
- Link to Khan Academy video for extra help with specific topics
- In class activities or assignments (when applicable)

Pearson Online Resources

Each student will be given an online log-in and ID to pearsonrealize.com. The website provides students with:

- Access to the online version of the book
- Video of the lessons
- Games to reinforce concepts
- Video tutorials, that allows students to try the concepts and get immediate feedback
- Animated math – Interactive tutorials to explore key concepts and skills.
- Extra practice problems
- Study Guides
- Practice Quizzes/Tests

Grade Reports

Grades may be accessed 24/7 on Infinite Campus through the Parent Portal. If you have difficulty logging in, please contact me as soon as possible. Parents may e-mail or call me if they have a concern or question about their child's progress in this class.

Algebra 2 Schedule*

Week of:	Monday	Tuesday	Wednesday	Thursday	Friday
1/7		Syllabus MathXL	C1 Pre-Test	1.1-1.3 Review	1.4-1.6 Review
1/14	C1 Test	C2 Pre-Test	2.1-2.4 Review	C2Q1	2.5-2.8 Review
1/21	No School	C2Q2	C2 Test	3.1	3.2
1/28	3.3 & Review	C3Q1	3.4	3.5	3.6 & Review
2/4	C3Q2	Review	C3 Test	4.1	4.2
2/11	4.3	4.4	Review	C4Q1	4.5 & 4.7
2/18	No School	4.6	4.8	4.9	Review
2/25	C4Q2	Review	C4 Test	Factoring Mastery	5.1 (5.6)
3/4	5.5	5.2	5.4	5.3 (5.6) P/T Conferences	No School
3/11	Review	C5Q1	5.7	5.8	5.9
3/18	Review	C5Q2	Review	C5 Test	Polynomials Mastery
3/25	Spring Break				
4/1	No School	6.1	6.2	6.3	6.4 & Review
4/8	C6Q1	6.5	6.6	6.7	6.8 & Review
4/15	C6Q2	Review	C6 Test	7.1	7.2
4/22	7.3 & Review	C7Q1	7.4	7.5	7.6 & Review
4/29	C7Q2	Review	C7 Test	8.1	No School
5/6	8.2	8.3 & Review	C8Q1	8.4	8.5
5/13	8.6 & Review	C8Q2	Review	C8 Test	Rationals Mastery
5/20	Study	Study	FINALS	FINALS	

*All dates/assignments are subject to change. Please check the calendar on the class website for updates.