**Algebra 2 Syllabus**

**2016-2017**

**Instructor: Sheila Kitt**

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1. **Description**

This course follows the Algebra 2 district approved curriculum and counts as a third year of graduation requirements for those students who began their high school curriculum with Algebra I.  Algebra 2 topics include operations with rational and irrational expressions, in-depth study of linear equations and inequalities, analyzing and solving quadratic functions including complex numbers, solving systems of linear and quadratic equations, properties of higher degree equations, and operations with rational and irrational exponents.  Students investigate and solve linear piece wise, absolute value, cubic, radical, exponential, logarithmic, and rational functions algebraically, numerically, and graphically, with and without a graphing calculator. Students analyze data and develop mathematical models to address real world problem situations.

1. **Organization**

Each class day, students are expected to come prepared and ready to learn. Notes will be given and students are required to practice all the sample problems in class. PowerPoint will be used to display the content and students can either print out the notes prior to class and use those to write on, or else they will need to bring notebook paper. It is recommended to print 2 to 3 slides per page. Assessments will be given every 2 or 3 weeks depending on the schedule.

1. **Course Topics**
* Functions, Transformations and Systems
* Quadratic Equations and Functions including Complex Numbers
* Polynomials and Polynomial Functions
* Radical Functions and Rational Exponents
* Quadratic Functions and Inequalities
* Exponential and Logarithmic Functions
* Trigonometric Functions and Ratios
* Probability, Statistics and Data
* Rational Functions
1. **School Supplies**
* Three Subject Notebook *(three headings: Homework/Notes/Scratch Paper)*
* Loose-leaf paper
* Three-Ring binder
* Pencils
* Graph Paper
* TI-83, TI-84, or TI-84 PLUS
1. **Classroom Rules of Conduct**
2. **Be respectful** to your classmates, teacher, and yourself.
3. Be in your seat before the bell rings.
4. Be prepared everyday by bringing homework, paper, calculator, and pencils.
5. Stay seated until the bell dismisses you to the next class. Coming in late, packing up early, and not giving your full attention to the class are all distractions and completely disrespectful to your classmates.
6. ***Using Headphones and ear buds*** are extremely disrespectful!!!
7. ***Cell phones are out of site out of mind!***
8. Personal questions pertaining to your grade should be taken care of before or after class, not during.
9. Please DO NOT announce to the class or the teacher how much you dislike the subject at hand. A sign of maturity is to try to do your best at all tasks you must undertake, whether you like them or not.
10. **Food and drink are prohibited at all times,** unless it’s bottled water.
11. Clean up after yourselves. If the room is in disarray, the students will not leave until it has been cleaned.
12. Use class time to work on **math** and not any other subject.
13. All rules in the JeffCo handbook will be followed.
14. **Evaluation**

10% Homework

65% Assessment (2 tests per unit)

25% Classwork/Quizzes/

**Homework/Notes**: We will be taking notes in class and working daily on practice problems. The notes will be valuable when completing homework assignments and will be counted as part of your daily grade. Homework will count for 80% and notes will count for 20%. In order to receive full credit for homework, you must take notes and participate in class as we practice examples. This year, notes will be given mostly via PowerPoint. Before the beginning of each unit, the PowerPoints will be available on my website. Notes may be printed out prior to the start of class, but if not, using your own notebook paper will be just as acceptable. Either way, you are expected to be practicing problems in class.

***IMPORTANT\*\*: Students will not receive full credit for homework unless they show all work. This is crucial for test preparation and exam review.***

**Classwork**: This will include any assignments given during class time, not counted as homework. Therefore, do your best as these will be graded on accuracy and not completion.

**Quizzes**: Administered throughout each unit including one or two concepts.

**Assessments**: One (or two) summative assessments for each unit.

1. **Attendance and Tardiness**

Excessive absenteeism and tardiness in any course creates a situation in which the student cannot succeed. Tardiness will be strictly enforced. LHS attendance policies and procedures will be followed.

In case of excessive absences, expect multiple phone calls home and referrals. Truancy will not be tolerated in this class. You have two school days for each day you are absent to make up homework. You have one week to make up a test after an absence. If you do not make up missed work within these time limits you will receive a zero for the assignment or test. **You are responsible** for arranging a time to make up your test.

1. **Suggestions for Success**

*Algebra 2 can be difficult and time consuming for many students. There are lots of concepts and information being taught in a short amount of time which leaves the class with very little time to focus on just one unit. Here are some helpful hints to ensure a successful year.*

1. ***Come to school every day!!!***
2. DO YOUR HOMEWORK.
3. **As soon as you begin to have trouble** with the current material, please plan to get some help with me or another math teacher. I am available during office hours Mon-Wed 3:15-4:00.
4. **Before tests or quizzes**, reread the notes from the PowerPoints and do the sample problems.
5. Check the calendar online daily.
6. **ASK QUESTIONS** about material you need help with or do not know how to do.
7. If you have questions outside of class or school, send me an email. As long as your email is polite and appropriate, I will respond.
8. **Commitment**

Parents and students should read and discuss this information sheet. Please sign in the appropriate blanks signifying that you understand. Show this signed copy to Ms. Kitt and keep on file your notebook reference throughout the year. Feel free to contact me if you have any questions, commitments, comments, or concerns.

Student’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_