Algebra II

2022 Spring Semester
Kent Island High School

Teacher: Mrs. Lawrence
Department: Mathematics
Credit: 1
Contact Information: email – jessica.lawrence@qacps.org

COURSE DESCRIPTION:

This course extends the study of topics introduced in Algebra I. Algebra II emphasizes quadratic, polynomial, rational, exponential and logarithmic functions and their applications in data investigations. Topics related to sequences and series are also included as well as an introduction to trigonometric functions. Algebra II is a rigorous course that places an emphasis on mathematical reasoning and communication.

COURSE OUTCOMES:

In addition to studying the topics mentioned above, students will be expected to demonstrate mathematical habits related to the following eight mathematical practices:
1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

COURSE OUTLINE:

<table>
<thead>
<tr>
<th>Topics/Unit of Study</th>
<th>Time Frame</th>
<th>Assessment(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inverse Relationships &amp; Transformations of Functions</td>
<td>3 weeks</td>
<td>All units of study may be assessed using a variety of assessments</td>
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<tr>
<td>Polynomial Functions &amp; Equations</td>
<td>4 weeks</td>
<td></td>
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<tr>
<td>Rational Functions &amp; Equations</td>
<td>3 weeks</td>
<td></td>
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<tr>
<td>Exponents &amp; Radicals/Square Root &amp; Quadratic Functions &amp; Relationships, Sequences &amp; Series</td>
<td>3 – 4 weeks</td>
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</table>
### EXPLANATION OF ASSESSMENTS

*** Students will be graded using a variety of methods, including but not limited to:
- daily assignments, tests & quizzes, warm-ups, midterm test, & final exam.

*** TESTS will be *announced* --- QUizzes may be *unannounced*.

*** The midterm will be counted as a progress grade.

### GRADING POLICY

The letter grade shall be determined by the following percentage scale:

- 90 - 100 = A
- 80 - 89 = B
- 70 - 79 = C
- 60 - 69 = D
- Below 60 = E

### MATERIALS

1. Three ring binder
2. Paper for note taking
3. **Pencils** and extra erasers
4. Scientific Calculator (from the TI-83 Plus/TI-84 Plus family or equivalent)

### ASSIGNMENTS & EXAMS POLICY

1. Keep a course notebook that includes ALL information papers, tests & quizzes, warm-ups, & notes.
2. **All assignments are due & collected the NEXT DAY** unless the instructor tells you otherwise.
3. Late work is accepted according to the High School Grading Policy of QACPS.
4. Assignments must follow these guidelines, or they will NOT be graded:
   a) be in **pencil NO INK !!!**
   b) have your **name**, the **assignment**, & the **date** shown clearly
   c) SHOW ALL WORK, be NEAT, be READABLE
5. Tests can be retaken following county guidelines.
6. Make-up tests/quizzes must be taken after school & within one week, *or the score remains zero*.
7. Make-up work & tests are allowed according to the attendance policies of QACPS & KIHS.
8. The **student**, NOT the teacher, has the responsibility to get make-up work or schedule a make-up test.
CLASSROOM REQUIREMENTS

The overarching goal for our time together in class is for students to learn mathematics.

1. All school rules will be followed in this classroom.
2. Students are expected to behave appropriately, maturely and respectfully at all times.
3. Students are expected to come to class prepared and ready to learn. Items to bring include a positive attitude toward learning, paper, pencils, completed assignments, any questions you might have and a calculator.
4. Students are expected to be doing mathematics from the time of the first bell until the time of the last bell. Class time should not be used for working on homework from another class, visiting with friends or engaging in non-mathematical use of a computer or a calculator.
5. Students are expected to participate in all classroom activities for which they are present. This includes completing warm-up problems, taking notes, participating in discussions or other large or small group activities, completing assigned in-class problems, completing any exit slip or closure assignments, working on math homework and completing assessments.
6. Bathroom Passes: You are given 6 passes a quarter (12 for the semester). You get no more, use them wisely.
7. Tardy Policy: Late 3 times, email home, on 4th tardy you will have an after-school detention.

NOTE TO THE STUDENT

I want you to succeed in this class. Please see me if you are having problems. I can help you after school (2:30 - 3:00) or help you make arrangements for tutoring.

NOTE TO THE PARENT/S OR GUARDIAN/S

My goal in this class is your student’s success. Please check parent portal often and ask her/him often to see tests & assignments. Please email me anytime you have a question or concern about your student’s progress. Thank you for helping me help your student succeed!!!

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“And will you succeed? Yes! You will, indeed! (98 and 3/4 percent guaranteed.)”

-Dr. Seuss
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* NOTE to Parent/Guardian *

Parent Portal is the QACPS website that allows you to see your student’s current grades by going to the internet. If you are not already signed up, please call the guidance office (410-604-2070) for information.

* Please fill out, sign, & return the attached form. *
Algebra II

I have read and understand the information given on the attached syllabus, and I will do my best to uphold my responsibilities in Algebra II.

Date: __________________________

Student name: ___________________________________________________ (please print)

Student signature: ____________________________________________

Parent/Guardian name: ___________________________________________________ (please print)

Parent signature: ____________________________

Please write any other information you would like me to know in this space. Thanks!