**Cumberland County Schools Syllabus**

**Algebra II**

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**Textbook (Title and ISBN):** Houghton Mifflin/Harcourt, “HMH Algebra 2 Volume 1 Interactive Student Edition” 978-0-544-38589-4; Houghton Mifflin/Harcourt, “HMH Algebra 2 Volume 2 Interactive Student Edition” 978-0-544-38590-0

**Materials needed:** Students are encouraged to have some type of notebook for recording notes during class; however, there will be specific instruction and opportunity for students to use iPads for digital notes.

**Grading Procedure (Daily, Test, Quiz):** As outlined in the student handbook: Daily Grades (40%), Test Grades (40%), Nine Weeks Exam (20%). Also, this course is an honors course and all students will receive three extra points added to their term average.

**Test Grades**: Tests will be given at the end of each unit. Additionally, homework will be turned in daily. Complete homework will receive five points, incomplete homework assignments will receive one point. At the end of the nine weeks a grade will be computed by dividing your points by the total possible points. This will give a grade based on 100, which will count as a test grade.

**Daily Grades:** There will be a short quiz givenmost days, on the assignment from the previous day. The quizzes given for each unit will be combined for a daily grade. Students doing poorly on these

quizzes are strongly encouraged to see me about possible extra quizzes or grade opportunities tied to extra tutoring.

**Major Focus of the Course:** Algebra II emphasizes polynomial, rational and exponential expressions, equations, and functions. This course also introduces students to the complex number system, basic trigonometric functions, and foundational statistics skills such as interpretation of data and making statistical inferences. Students build upon previous knowledge of equations and inequalities to reason, solve, and represent equations and inequalities numerically and graphically.

**The major work of Algebra II is from the following domains and clusters:**

* **The Real Number System**
	+ Extend the properties of exponents to rational exponents.
* **Seeing Structure in Expressions**
	+ Interpret the structure of expressions.
	+ Use expressions in equivalent forms to solve problems.
* **Arithmetic with Polynomials and Rational Expressions**
	+ Understand the relationship between zeros and factors of polynomials.
* **Reasoning with Equations and Inequalities**
	+ Understand solving equations as a process of reasoning and explain the reasoning.
	+ Represent and solve equations graphically.
* **Interpreting Functions**
	+ Interpret functions that arise in applications in terms of the context.
* **Building Functions**
	+ Build a function that models a relationship between two quantities.
* **Making Inferences and Justifying Conclusions**
	+ Make inferences and justify conclusions from sample surveys, experiments, and observational studies.

**Attendance/Make-Up Work Policy:** Students may pick up work upon return to school, however, credit will not be issued until the absence is deemed excusable per board policy (CCBOE Policy #6.200) Students have five (5) school days following an absence to schedule and complete make-up work.