Algebra 2

Syllabus 2018-2019

Instructor: Mrs. Talley email: talleyc@dearbornschools.org

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Course Description:

The two major goals of this course are to solidify student’s algebraic skills and to extend their understanding. Topics include linear functions, systems of equations, polynomial functions, rational expressions, exponents, radicals, quadratics, exponential and logarithmic functions and inverses. The course focuses on mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Throughout the course, Common Core standards are taught and reinforced as the student learns how to apply the concepts successfully.

During the year students will work collaboratively with others as they use problem solving strategies, complete investigations, perform critical analysis and justify their thinking effectively. The course is balanced between procedural fluency (algorithms and basic skills), deep conceptual understanding, strategic competence (problem solving), and adaptive reasoning (application and extension).

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 Learning Objectives:

1. Demonstrate the ability to interpret and graph various functions and their inverses.
2. Continue building knowledge of different function types.
3. Be able to use variables and functions to represent relationships.
4. Be able to model and solve real world problems.
5. Be able to rewrite expressions and equations into simpler forms using algebraic manipulation.
6. Understand the connection and relationship between the equation, the graph and the solutions for any particular problem.
7. Understand the basics of trigonometry and trigonometric functions.

Materials:

* 3 ring binder (1 inch)
* Pencils, erasers, sharpeners
* Colored pencils
* Highlighters
* Ruler
* Composition notebook

Grading Categories:

Summative (tests, quizzes, projects, final exam) scores will be 95% of your grade and Formative (classwork, homework) will make up 5% of your grade.

Policy for Formative Assignments

The purpose of Formative Assignments is to learn, practice and prepare you to demonstrate your understanding of mathematical content and practices.

Due to the importance of formative work, *all students are expected to complete these assignments.*

Electronic Devices

I want you to be focused on Algebra 2 while you are in my classroom. Using your cell phone or other electronic devices while in class interferes with your ability to be focused.

Any electronic device seen during class will be confiscated and turned into the main office at the end of the day for parent pick up.

Really, Really Important Stuff:

I am here teaching because I want you to succeed. If you are having trouble or feeling overwhelmed by this class, come and see me. Do not wait until the last minute to discuss your concerns or get help.

**Policies and Procedures Contract** – **Due Tuesday, September 4, 2018**

**Student Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Hour:** \_\_\_\_\_\_\_

Student Email:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Parent/guardian #1 Name:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/guardian #1 Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/guardian #1 Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Parent/guardian #2 Name:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/guardian #2 Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/guardian #2 Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please review the class overview then sign below stating that you have read and understand the policies and procedures.

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Parent/guardian Signature Date

Questions, Comments or Concerns: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

