

ALGEBRA I – COURSE SYLLABUS

2018-19 ~ Ms. Blackwell

Course	Instructor	Resources
Algebra I Room 9	Ms. Laurie Blackwell e-mail: lblackwell@paparts.org Phone: (505)830-3128 ext.#24612 Prep-Period: 6 th Period [1:26-2:20 p.m.]	Textbook: Algebra 1 ~ Common Core (Pearson)

Course Description
<p>This algebra course allows the student to use problem solving, visual learning, big ideas, interactive learning and differentiated instruction to master the Algebra 1 Common Core State Standards for mathematics. The student will be expected to utilize the following mathematical practices:</p> <ol style="list-style-type: none"> 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.

Essential Student Learning Outcomes:
<ul style="list-style-type: none"> • Students will demonstrate strong problem solving and reasoning skills to develop mathematical proficiency. • Students will simplify and/or solve a wide variety of number and algebraic expressions (including exponents and radicals). • Students will understand linear functions, graphs, inequalities and solve linear equations (including systems). • Students will represent, describe and compare data sets. • Students will understand quadratic functions, their graphs and solve quadratic equations.

Course Outline	
1 st Semester	2 nd Semester
<ul style="list-style-type: none"> ❖ Foundations for Algebra ❖ Solving Equations ❖ Solving Inequalities ❖ Introduction to Functions ❖ Linear Functions ❖ Systems of Equations & Inequalities 	<ul style="list-style-type: none"> ❖ Exponents and Exponential Functions ❖ Polynomials and Factoring ❖ Quadratic Functions and Equations ❖ Radical Expressions and Equations ❖ Rational Expressions and functions ❖ Data Analysis and Probability

REQUIRED Materials: ALL materials should be brought to class on a daily basis.

<ul style="list-style-type: none"> • Student Textbook: PEARSON ALGEBRA 1 ~ Classroom books will be available on a daily basis ☺ YOUR book will be at home waiting for you!! • BINDER!!! With at least 3 dividers!! NO EXCEPTIONS!!! • Spiral notebook...for MATH NOTES <u>ONLY!!!!!!!!!!</u> • Pencil with eraser and pen of any color. • Calculator (recommended calculator: TI 83+ or TI 84)

Class Policy: Expectations, grading, and guidelines may be found in the mathematics brochure.

Pacing Guide for Algebra I as well as Algebra I Blueprint with Standards is attached.