

# ALGEBRA I WITH PROBABILITY

## Syllabus

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### I. **Course Description:**

Algebra I with Probability is a newly-designed course which builds upon algebraic concepts studied in the middle grades. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. This is one of three courses required for all students. Content is designed to engage students in a variety of mathematical experiences that include the use of reasoning and problem-solving skills, which may be applied to life situations beyond the classroom setting. This course serves as the cornerstone for all high school mathematics courses; therefore, all subsequent mathematics courses require student mastery of the Algebra I content standards. Additional information for this course can be found on the Alabama Department of education website.

### II. **Course Objectives:**

To enable students to comprehend the objectives mandated by the state for this course and to build a strong foundation for subsequent math courses. It should also decrease their apprehension of learning mathematics and make learning more relevant and enjoyable.

### III. **Classroom Expectations:**

#### **Classroom Rules and Procedures:**

1. Be Respectful, Be Responsible, Be Resourceful.
2. Pencils are preferred.
3. **Work must be shown to receive credit.**
4. All school rules in the student handbook will be enforced. This includes dress code, device, and Tardy Policies.
5. Students are responsible for arriving in class on time and prepared to learn with required notebooks, books, pencils, and assignments.

#### **Accommodations:**

Requests for accommodations for this course or any school event are welcomed from students and parents.

#### **Concerning laptop utilization:**

1. Student laptops should not be hard wired to the network or have print capabilities.
2. Use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers.
3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops.
4. Laptops and other electronic devices will be used at the individual discretion of the teacher.

### IV. **Grading Policy:**

Test grades will account for 70% of the 9-weeks grade, with the remaining 30% being determined by quiz/daily grades. The grading scale is as follows: A (90-100), B (80-89), C (70-79), D (65-69), and F (below 65). Grades will be a reflection of mastery of the standards. Make sure all absences are excused as class work can be made up and graded for excused absences only. The Final Exam counts for 20% of your final grade.

### V. **Make-up Test Policy:**

Make-up tests must be done before school or during Patriot Path.

### VI. **Textbook:**

Algebra 1 Common Core, Pearson, ISBN# 9780133185485  
Online Textbook: [www.savvasuccessnet.com](http://www.savvasuccessnet.com) Username:

Password:

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**VII. Materials and Supplies Needed:**

1. Pencils
2. 3 Ring Binder (2 inch)
3. Notebook Paper
4. Graph Paper
5. Scientific Calculator

**Course Outline:**

Module	Unit	#	Indicator
A	1	1	Solve One and Two Step Equations
		2	Solve Multi-Step and Absolute Value Equations
		3	Literal Equations
	2	4	Introduction to Functions
		5	Function notation, domain, range, and composite functions
		6	Analyze graphs that represent functions
		7	Additional Nonlinear functions
		8	Function Intersections
	3	9	Inequalities
		10	Multi-step Inequalities
		11	Compound Inequalities
		12	Real world inequalities
B	4	13	To write and graph lines in slope intercept form
		14	Write and Graph lines in Point-Slope and Standard Form
		15	Graph Linear Piece-Wise Functions
	5	16	Systems
		17	Solving Systems Best Method
		18	Real world systems
		19	Graphing Inequalities w/Two Variables
	6	20	Rules of Exponents
		21	To rewrite expressions involving radicals and rational exponents
22		Exponentials	
C	7	23	Simple Operations with Polynomials
		24	Advanced Operations with Polynomials
	8	25	Factoring
		26	Advanced Factoring
	9	27	Graphing Quadratics and Inequalities
28	Solving Quadratics by any method		
D	10	29	Nonlinear and Linear Models
		30	Write Equations for Functions
		31	Arithmetic and Geometric Sequences
	11	32	Translating Functions
		33	Systems of Linear and Quadratics
		34	Extending to Inequalities of Quadratics, Exponential, and Absolute Value
	12	36	Statistical Representations
		37	Interpreting Statistics
		38	Two-Way Frequency Tables
		39	Scatter Plots
		40	Probability