

Algebra Syllabus

Bob Jones High School
650 Hughes Road
Madison, AL 35758
256-772-2547

Jared Smith – jasmith@madisoncity.k12.al.us

Course Description: Algebra A and B will be taught using the mastery approach. Algebra A/B are made up of 4 modules. Using the mastery approach will allow students to have a firm understanding of the material and it gives them the best possible chance to master the material. Please visit your teacher's webpage to read more about Algebra A/B.

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.

Course Expectations:

1. Be Respectful – respect of everyone and everything in this room
2. Be Responsible – bring all your materials, do your work in pencil, abide by the school handbook
3. Be Resourceful – give your best effort each day
4. Work must be shown to receive credit
5. Be in your seat when the bell rings
6. There will be a tutoring schedule posted. Please come see a teacher if you are struggling and need extra assistance.

BJ Grading Policy: Overall Grade: You will receive a letter grade based on the school scale. Your overall grade will be calculated with 70% being tests and projects and 30% being classwork, homework and quizzes. The final exam is cumulative and will count 20% of the semester average.

Text: Algebra 1 Common Core, Pearson, ISBN# 9780133185485

Online Textbook: Username: Algebra1Fall19 Password: bjhs2019

Make-up Test Policy: An in class make-up test day will be provided or patriot path day will be used.

Materials and Supplies:

Pencils	3 Ring Binder	Notebook Paper
Graph Paper	Scientific Calculator	Red Pen

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.

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Course Outline:

A student may spend an additional time in a module if they have not reached mastery level for those indicators. Please refer to the Partnership Agreement Form for more information.

Module	Unit	#	Indicator
A	1	1	Solve One and Two Step Equations
		2	Solve Multi-Step Equations
		3	Literal Equations
	2	4	Writing Inequalities
		5	Inequalities
		6	Multi-step Inequalities
		7	Real world inequalities
	3	8	Introduction to Functions
		9	Function notation, domain, range
		10	Analyze graphs that represent functions
		11	Additional Nonlinear functions
		12	Function Intersections
B	4	13	Direct and Inverse Variations
		14	To write and graph lines in slope intercept form
		15	Write and Graph lines in Point-Slope and Standard Form
	5	16	Systems
		17	Solving Systems Best Method
		18	Graphing Inequalities with 2 variables
		19	Real world systems
	6	20	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
		27	Rational Expressions
		28	Adding and Subtracting Rational Expressions
	9	29	Solving Quadratics by any method
		30	Graphing Quadratics
		31	Systems of Linear and Quadratics
D	10	32	Translating Functions
		33	Multiplying and Dividing Radicals
		34	Adding and Subtracting Radicals
		35	Arithmetic and Geometric Sequences
	11	36	Statistical Representations
		37	Interpreting Statistics
		38	Two-Way Frequency Tables
		39	Scatter Plots
		40	Probability