





**Course Syllabus**  
**Algebra 1 with Probability**  
**Instructor: Hunt, Travis**

**Course Description:**

The Algebra I course builds on the foundational mathematical content learned by students in Grades K-8 by expanding mathematical understanding to provide students with a strong mathematics education. Designed to engage students in a variety of mathematical experiences, the content includes 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.

**Course Objectives:**

<http://alex.state.al.us/browseMath.php>

**Classroom Rules and Expectations:**

**Be respectful.**

**Be on time.**

**Be prepared.**

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

**Concerning Laptop Utilization:** 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.

**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 the final grade.

**Make-Up Work Policy:**

# James Clemens High School

11306 County Line Road  
Madison, AL 35756



**Phone: 256-216-5313**

*Extension: 95140*

*Email: thunt@madisoncity.k12.al.us*

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**Makeup tests are to be arranged by the student as soon as possible and no later than the first day back to class. Students will be allowed to turn in homework assignments late up until the end of the unit in which the assignment is given (the day of the test for the unit is the last day). Late credit will be awarded instead of full credit if an assignment is turned in late.**

## **Course Materials:**

**Pencil, paper, laptop / chrome book and a calculator.**

## **Texts/Required Readings:**

**Big Ideas Math Algebra 1**

**Dr Ron Larson**

**Dr Laurie Boswell**



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<b>18 - WEEK PLAN*</b>	
<b>Week 1</b>	Solving Equations (one, two, multi-step, & absolute value)
<b>Week 2</b>	Solving Equations (variables on both sides & literal), Functions & Relations
<b>Week 3</b>	Equations as Functions, Domain, Range, Graphs of functions, Linear vs Nonlinear, Function Intersections
<b>Week 4</b>	Inequalities (writing & graphing), Solving Inequalities (multi-step & compound)
<b>Week 5</b>	Real-World Inequalities, Lines in slope-intercept form (writing & graphing)
<b>Week 6</b>	Writing and graphing functions (point-slope, standard, linear piece-wise, & step)
<b>Week 7</b>	Solving Systems of Equations (graphing, substitution, elimination, & real-world), Graphing Linear Inequalities
<b>Week 8</b>	Rules of Exponents
<b>Week 9</b>	Radicals & Rational Exponents, Exponentials, Simple Operations with Polynomials
<b>Week 10</b>	Advanced Operations with Polynomials, Factoring (GCF & Grouping)

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<b>Week 11</b>	Factoring (DOTS & Trinomials), Graphing Quadratics & Inequalities
<b>Week 12</b>	Solving Quadratics (factoring, completing the square, & quadratic formula)
<b>Week 13</b>	Modeling (linear & nonlinear), Function Equations, Arithmetic Sequences, & Geometric Series
<b>Week 14</b>	Translating Functions
<b>Week 15</b>	Systems of Linear & Quadratics, Inequalities (Quadratic, Exponential, & Absolute Value), Quantitative Literacy
<b>Week 16</b>	Data Analysis (visualizing, summarizing, & real-world application), Probability
<b>Week 17</b>	Review
<b>Week 18</b>	Final Exam

**\* This syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions or substitutions.**