



## Algebra 2 (11th grade)

*Mr. Reddy*

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### Course Description:

Algebra 2 content is organized around linear, quadratic, exponential, radical and rational functions. In addition to new content, Algebra 2 includes numerous exercises involving geometry and trigonometry. Preparation for SAT and ACT standardized is integrated into the curriculum.

### Text:

Algebra 2 McDougal Littell 2007 ISBN: 13:978-0-618-59541-9

**Honor Code/Pledge:** John Milledge Academy expects each student to live as a responsible and honorable person. When students are admitted to John Milledge, they become identified with the school. It is expected that their conduct will reflect favorably upon them and the school at all times; therefore, the Honor Code is an integral part of the daily structure of school life which predicates the assumption that students are honorable and have the right to be trusted. Each student must take personal responsibility in accepting the Honor Code. The Honor Code encompasses academics, behavior, and character.

*“I pledge to always act in an honest, honorable, and accountable manner and expect the same of my fellow students. I agree to promote exemplary behavior at all times and understand that there will be consequences for inappropriate actions.”*

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**Tardy/Attendance:** Attendance is mandated by our accreditation and is valued because of the educational content of each class. Students are expected, therefore, to be present for all classes. Any absence or tardiness must be documented in writing or by oral communication with the parents. Furthermore, tardies and absences influence a student's ability to exempt spring exams (see Handbook for details).

For tardies:

- A student is considered tardy to school from 1 minute to 10 minutes after the late bell of the first class of the day for the student. Students with more than 10 unexcused tardies to school in a school year will not be able to exempt exams.
- After each set of four tardies to the first class, students receive one unexcused tardy absence from class.
- A student is considered unexcused tardy absent from the first class beginning at the 11th minute after the late bell.

For absences:

- After 8 unexcused absences in a year, a student may not exempt spring exams.
- After 10 unexcused absences from any class per semester, a student will receive an INCOMPLETE for his/her semester grade. Extenuating circumstances will be reviewed by administration on appeal (see the “Appeals” section in the Handbook for details).
- Students may be given an opportunity to receive course credit and avoid receiving an INCOMPLETE by making up course time in credit recovery during exam make-up days, or during summer school if deemed necessary. A student will need one hour of credit recovery per unexcused absence after 10 unexcused absences each semester.
- Additional unexcused absences may result in additional disciplinary actions up to and including loss of credit for the course at the discretion of the Head of School.

**Make-Up Work:** It is the student’s responsibility to secure all missed work and to ensure that all requirements are satisfied.

A student is expected to complete all class work within 3 days after being absent. This applies to assignments missed during the absence, without prior knowledge. Students need to be proactive and consult on a teacher-by-teacher basis to schedule make-up work. A student should be prepared to take tests or complete any make-up work that he/she has prior knowledge of on the next day after missing. Please refer to the Parent/Student Handbook for the complete Make-Up Work Policy.

**Homework:** Homework, projects, and reports may be assigned at the discretion of the teacher on week nights and/or weekends. All students are expected to do their homework thoroughly and turn it in at the beginning of the class on the due date or at the discretion of the teacher.

**Grading:** A student’s yearly grade consists of an average of each semester’s grade. For all classes, semester exams are weighted as 20% of a semester grade.

- Daily Grades/assignments 20 %
- Quizzes:20%
- Tests: 40 %
- Semester Exam / Capstone Project: 20%

**Exam Exemptions:** Students may exempt final exams on a class by class basis if the following conditions are met:

- They have a 90 yearly average in that subject or higher
- They have 8 or less unexcused absences during the year or 4 or less unexcused absences for a one semester class in that subject
- They have 10 or less tardies to school for the year
- They have had no major disciplinary action in any subject

No one will be exempted from midyear exams unless it is a one semester course.

Students may not be eligible to exempt an exam grade if the class requires a term/research essay or capstone project at the end of the semester/year.

The teacher will notify the student, in writing, of his or her exemption by the last day of regular class prior to the final examination week.

**Pertinent Information:** All students are responsible for the rules and policies set forth in the most current Parent-Student Handbook, found online at [www.johnmilledge.org](http://www.johnmilledge.org) under “quick links.”

**Mr.Reddy’s Rules:**

1. No chewing Gum in the class
2. Respect the teacher and fellow students
3. Dis respect leads to losing the daily grade that day
4. No Rest rooms
5. No getting up in the class
6. Using cell phone in the class is strictly prohibited

**Pertinent Information:**

**Computer Use Policy:** Students will be permitted to use computers in class for various assignments and when working on projects. Computers should not be used for note-taking purposes during regular class times unless approved by the teacher. The use of computers for homework and projects is greatly encouraged and even expected. Students will be notified in advance if time will be allotted in class for using a computer for an assignment. Students are encouraged to have computers available and readily accessible in their lockers.

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**Materials Needed Daily:**

Textbook, pens (blue or black ink for tests, homework, notes, etc.), pencils, a notebook and/or binder for taking class notes, Hi-lighter, red ink pens for correcting papers, and notebook paper for various assignments. Other supplies may be needed for some assignments or projects, such as colored pencils or markers. In addition, students are encouraged to have a folder or place in their binder for keeping assignments. It is the responsibility of each student to keep all graded assignments as a record of the completion of their own work should a discrepancy in grading

arise.

**Class Expectations:**

- 1) Arrive to class on time, prepared, and ready to work
- 2) Bring all required materials (this includes pens, pencils, paper, textbook, notebook, assignments, etc.)
- 3) Have a positive attitude and a willingness to participate
- 4) Students are expected to take notes, read, study, and turn in assignments on time
- 5) Students are expected to listen and pay attention in class
- 6) Students are expected to raise their hands in order to be called upon
- 7) Students are expected to follow all class and school rules

**Summary of Classroom rules:**

- 1) All students should demonstrate proper respect for themselves, their school, and all others (students, teachers, parents, guests, all staff of John Milledge Academy)
- 2) All students should value theirs and others' education
- 3) Adhere to the Honor Code

**Extra Help:**

Tutorials are available from 3:15 p.m-3.30 p.m.

**Technology Resources:** *classzone.com*

*Activation Code: 2471602-30*

**Topics to be covered:**

**Unit 1 Linear Equations, Inequalities, Functions and Systems**

**Chapter 1: Equations and Inequalities**

Real Numbers

Linear Equations and Inequalities

Rewrite Formula and Equations

Absolute Value equations and Inequalities

**Chapter 2: Linear Equations and Functions**

Slope and Rate of Change

Equations of Lines

Scatter Plot – Line of Best Fit

Absolute Functions and Transformations

Linear Inequalities in Two Variables

### **Chapter 3: Linear Systems and Matrices**

Solve and Graph Linear Systems

Systems with Three Variables

Matrices

Determinant and Cramer's Rule

### **Unit 2 Quadratics, Polynomial, and Radical Functions**

#### **Chapter 4: Quadratic Functions and Factoring**

Graphing Quadratic Functions in Standard Form

Quadratics Functions in Vertex and Intercept Form

Solve  $x^2 + bx + c$

Solve  $ax^2 + bx + c$

Quadratic Equations by Finding Square Roots

Completing the Square

#### **Chapter 5: Polynomial Functions**

Properties of Exponents

Factor and Solve Polynomial Equations

#### **Chapter 6: Rational Exponents and Radical Functions**

n-th Root

Inverse Functions

Graph Square Root and Cube Root Functions

### **Unit 3 Nonlinear Functions and Relations**

## **Chapter 8: Rational Functions**