

Data Analysis

- make a linear model, both graphically and algebraically, for a given set of data.
- use a linear model for data to make predications extending beyond the given data.
- calculate the mean, median, and mode for a set of data.
- use a calculator to generate models for linear data.

Systems of Equations

- solve a system of linear equations graphically.
- solve a system of linear equations algebraically.
- represent a problem situation with a system of equations.

Quadratic Functions

- sketch the graph of a quadratic function.
- identify the maximum or minimum of a quadratic function.
- identify the intercepts of the graph of a quadratic function.
- identify the axis of symmetry of the graph of a quadratic function.
- identify the vertex of the graph of a quadratic function.
- model vertical motion problems with quadratic functions.
- use the quadratic formula to solve quadratic equations.
- model area problems with quadratic functions.

Units of Instruction Aligned with Curriculum Standards:

Units

1. Solving Equations in One Variable
2. One Variable Linear Inequalities
3. Using Algebra and Graphs to Describe Relationships
4. Graphing and Analyzing Linear Functions
5. Linear Inequalities
6. Linear Systems and Interacting Linear Functions
7. Exponents and Exponential Functions
8. Polynomials and Factoring
9. Quadratic Equations and Functions
10. Other Functions

PASS Tests
End of Course Exam

May 7-11, 2012
mid May 2012

To review the standards and learning goals, visit

<http://teachers.greenville.k12.sc.us/sites/ahaynes/Handouts/Algebra%20One%20HONORS/Algebra%201%202010%20yearly%20overview.doc>

ASSESSMENT

Mastery of the objectives presented will be assessed through homework, starter problems, responses to essential questions, presentations, tech lab assignments, progress in the computer lab, quizzes, chapter tests, and the End of Course test. A practice mini-PASS test may be given prior to the administration of the PASS.

GRADING

Tests and projects make up 60% of the nine-week grade, quizzes and daily classwork are 30%, and homework is 10%. The first semester grade will be determined as follows: 40% First Nine Weeks, 40% Second Nine Weeks, 20% Semester Exam. The second semester grade will be determined as follows: 50% Third Nine Weeks, 50% Fourth Nine Weeks. The final grade will be determined as follows: 40% First Semester, 40% Second Semester, 20% End of Course Test (the final exam). Because this course is a high school credit course, no exemptions are allowed. Therefore all algebra students are **required** to take the first semester exam and the end-of-course test. Grading will be done in a manner so that it is interpreted as a measure of learning and will not include controllable nonacademic factors as extra points for signatures, loss of points for writing in ink, etc. My purpose for grading is to communicate how much learning and success has been accomplished.

GRADING SCALE

$$93 \leq A \leq 100$$

$$85 \leq B \leq 92$$

$$77 \leq C \leq 84$$

$$70 \leq D \leq 76$$

MATERIALS

Each student needs a 3-ring binder, loose-leaf notebook paper, a pad of quadrille graph paper, a straight-edge (ruler) and pencils. Spiral notebooks are acceptable only if the sheets are perforated.

GRAPHING CALCULATORS

I also recommend that each student have TI-84 plus silver edition graphing calculator. Other graphing calculators are applicable, but all references made to graphing calculator in class will be about the TI-84 plus silver edition. The average cost is approximately \$120. These will be used to do technology labs throughout the course. If a student does not have her/his own personal calculator, there will be a few available for use in class only. Many of the course objectives require that students are familiar with the keystrokes and features needed to solve all types of problems. Therefore the graphing calculators serve as a learning and motivational tool all year long. Students are also aware that games can be loaded onto their graphing calculator. **NO STUDENT IS ALLOWED TO PLAY GAMES AT SCHOOL.** If a student is guilty of this, the calculator will be confiscated, the games will be deleted, and stored in an administrator's office for the parent to come in to collect.

SC's ATTENDANCE POLICY

Any student may be denied credit for this course if she/he has been absent for more than ten (10) days.

RMS's TARDY POLICY

Students have three (3) minutes between classes. Consequences for tardiness follow:

First tardy – no penalty, warning

Second tardy – no penalty, contact parent by phone

Third tardy - referral to office, detention, contact parent by phone

Fourth tardy – detention

Fifth tardy –parental conference and other action as necessary to correct tardy problem

MAKE-UP WORK POLICY

When students return to school from an absence, it is her/his responsibility to gather all worked missed. Once the admit to class slip is signed, the make-up assignment will be written on the back. If no admit slip is presented for teacher signature, the student must come back after 3:30 pm to receive make-up assignments. Generally, tests and quizzes that need to be made up will not be done during class time. Please arrange to make-up quizzes or tests at 7:55am or after 3:30 pm. All make-up work must be completed within five (5) days of the return to school from an absence.

LATE WORK

It is the general policy not to accept unexcused late work. This includes forgetting it at home or in the locker. Each student is expected to have what is needed for class each day, including the assignment due that day.

CLASSROOM EXPECTATIONS

Students are expected to do their best and behave respectfully. All materials need to be brought to class.

Students need to be on time. I also expect my students to complete all assignments neatly and to have a positive attitude in class. **I expect all students to collaborate and cooperate with me and each other** with a minimum amount of disruption to maximize the learning experiences for all.

CONSEQUENCES

Students violating classroom expectations will receive the following consequences: Telephone conference with parents, face-to-face conference with parents, after school detention, and disciplinary referral (sometimes resulting in in-school suspension or out-of-school suspension). Please know that any severe misbehavior may result in immediate removal from class and an office referral. I believe that when a student chooses his behavior, he/she has also chosen his/her consequences.

PREPARATION

Each student needs to develop a set of study habits that fosters success in today's math courses. Many students, easily and without much effort, rarely prepared for class, quizzes and tests throughout elementary school. For many students however, as they go through the middle school years, they begin to realize that math does not come as easy and simple as it had in years past. This begins to show and is reflected in their math grades. To prevent a drop in math grades, students and parents may need to be proactive by being conscious of past study habits and revising them as needed. Contrary to popular belief, math is a course that can be studied for. I will make a conscious effort to present effective study practices in class so that my students will have some

ideas on how to study for math at home. Find what works for you so that these study habits make the transition to high school math easier.

ASSIGNING HIGH SCHOOL CREDIT

- This course is an honors level course. Therefore all students passing this course will be awarded the Honors grade point.
- Students with a final average of 85 and above generally will be recommended for placement in Honors Geometry in ninth grade.
- Students with a final average of 77 – 84 generally will be recommended for placement in Regular/College Prep/Advanced Geometry in ninth grade. Students may retake the Honors Algebra in ninth grade. In this case, only the ninth grade retake grade will be used in figuring the student's GPR and only the ninth grade attempt will show in the transcript.
- Students with a final average of 63 – 76 will be strongly recommended to repeat Honors Algebra or take College Prep Algebra or Math Tech I in ninth grade. In this case, only the ninth grade retake grade for Algebra will be used in figuring the student's GPR and only the ninth grade attempt will show in the transcript.
- Students with a final average of 0 – 62 will not be awarded any credit and will repeat Honors Algebra, College Prep Algebra, or Math Tech I in ninth grade.
- All students **must** earn a math credit before entering ninth grade. Therefore students who fail an algebra course must attend summer school for either Pre-Algebra III or Algebra One.

******The above information is communicated throughout all the middle schools in the School District of Greenville County.*

Procedures for Non-instructional Routines:

1. Upon arrival to class, students are to begin work on the day's starter problems until the teacher is ready to begin. The students keep the starter problems in their notebooks each day.
2. Homework will be checked periodically for completion only, either during their warm-up time or through collection. Homework is to be completed to the best ability of the student. The only marks recorded for homework are 100's, 50's, and zeroes.
3. Students will keep all homework, classwork, notes, handouts, syllabus, and starter problems in their notebooks.
4. Tests will be collected and filed in the classroom.
5. All work turned into the teacher for grading will have the first and last name of the student, the date, period, and assignment. It is to be written in pencil only unless otherwise informed. Assignments written in ink will be rewritten by the student.
6. At the end of class, student will be dismissed with the permission of the teacher, not solely by the sound of the bell.
7. Students will need a note from an administrator or another teacher to be excused for tardiness.
8. Pencils may be sharpened at any time. However I hope that good judgement is used to decide when to leave your seat to sharpen your pencil.
9. Bathroom breaks will not be permitted during class unless there is an emergency.
10. Behavioral expectancies in the computer lab and media center are synonymous to those defined for the classroom.
11. Fire drills take place without advance notice. *Fire Exit* diagrams are posted in every classroom. During a fire (or drill), students are to line up at the door in an orderly fashion. Students and their teacher will then exit the classroom in an orderly fashion. Students will become familiar with these procedures through the practice of fire drills.
12. Tornado drills are practiced once each year. Students will follow the state guidelines during this drill. Teachers will advise students on proper procedure.

Mrs. Haynes' Contact Information

Email address is ahaynes@greenville.k12.sc.us.

Voice mail is 355-7939.

Website: <http://teachers.greenville.k12.sc.us/sites/ahaynes/default.aspx>

Receive extra assistance by appointment only after school from **3:30pm until 4:00pm each day.**