

Coordinate Algebra  
Heritage High School

Safna Kalariparambil (Mrs. K)  
skalariparambil@rockdale.k12.ga.us  
(770) 483-5428 (ext. 27184)/V3  
<http://coalg.weebly.com>

### Course Description

*Coordinate Algebra* is the first course in a sequence of mathematics courses designed to prepare students for college and career readiness. The Georgia Department of Education defines the course: The fundamental purpose of Coordinate Algebra is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Coordinate Algebra uses algebra to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

### Link to Standards

<https://www.georgiastandards.org/Common-Core/Pages/Math-9-12.aspx>

- Once you have opened the website, there will be a blue column on the right side of the screen. We will be working under the subtitle: Coordinate Algebra.

### Materials/Supplies/Technology

- 3 ring binder (1 ½ in. binder)
  - Notebook paper
  - 5 dividers
  - Graph paper: centimeter paper
  - Scientific calculator
  - AA batteries: one package
  - Markers: one multi-color package
  - #2 Pencils: dozen
  - Tissue
  - Hand Sanitizer
  - Ruler
  - Paper towels or wet wipes
  - Colored pens: dozen
  - Colored pencils: one multi-color package
  - Dry erase makers: one multi-color package
  - Highlighters: one package
- Textbook
    - Georgia High School Mathematics 1 McDougal Littell,\$79.30 per text if lost or damaged
  - Online Resources
    - <http://www.amathsdictionaryforkids.com/>
    - <http://www.usatestprep.com>
    - <http://www.purplemath.com>
    - <http://www.khanacademy.com>

Note: The teacher reserves the right to make adjustments in course content and/or grading procedures as needed.

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**Measurement Topics**

- Relationships and Quantities of Linear and Exponential Models
- Reasoning with Equations and Inequalities
- Linear and Exponential Equations
- Interpreting Categorical and Quantitative Data
- Transformations in the Coordinate Plane
- Simple Geometric Proofs Through Algebra and Coordinates
- *Students and parents will be provided specific math, achievement standards for each measurement topic including essential vocabulary and study aids.*

**Major Assignments/Performance Task that require a Rubric**

For Tasks or Projects that are assessed using a rubric, the final score will be converted using the following table:

Average Score Rating	100 Pt. Scale Conversion Range	
3.5 – 4	93 – 100	Exceeds the standard
3.0 – 3.4	82 – 92	Meets the standard
2.4 – 2.9	75 – 81	Progressing towards the standard
2.0 – 2.3	70 – 74	Little to no progress towards the standard
1.5 – 1.9	60 – 69	Does not meet the standard. Student must be reassessed following reassessment policy.
1 – 1.4	55 – 59	
0 – 0.9	0 - 54	

- Any assessment may be used for summative or formative purposes.
- Assessments are formative when they are used during the learning cycle to inform instruction. Assessments are summative when they are used at the end of a learning cycle to evaluate learning.

**Grading Procedures**

Cumulative grades will determined by the following point scale:

Standard Mastery: 40-60 points per standard

Tests: 150-200 points per test

Daily Assignments: 5-20 points per daily assignment

- Homework
  - Homework could be an extension of work started in class and is intended to allow students a chance to review notes, practice problems, and concepts presented in class. Work must be completed before the next class meeting which will be graded according to the current standard being assessed.

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- Portfolios
  - Portfolios/Notebooks are one way to manage the collection and review of evidence (work samples, artifacts, etc.) of mastery with regard to learning expectations. Each student will have and maintain their Portfolio/Notebook.
- Reassessment Policy
  - Timeliness is an important quality and promotes success in school and in the world of work. Prior to students being allowed to reassess on a standard they must complete an extra practice.
- Academic Honesty Policy
  - A student shall not cheat on tests, examinations, projects, homework, or reports by giving or receiving unauthorized assistance nor be involved in plagiarism or other acts of academic dishonesty. Cheating of any kind on any assignment is considered the theft of someone else's diligence and the assignments of all parties involved will not be accepted and may result in disciplinary action.
- Tutoring
  - Tutoring will be available Tuesday and Thursday mornings from 7:30 - 8:00. Students must come prepared with materials and specific standard(s) for which they need remediation.

**Classroom Rules and Consequences**

- 1) Be on time
- 2) Be prepared and organized for class
- 3) Be respectful of yourself, others, and school property
- 4) Be an active learner

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