

Advanced Algebra: Concepts and Connections
2024-2025 Academic Year
Mrs. Aldred
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Course Description: Advanced Algebra: Concepts & Connections is the culminating course in a sequence of three high school courses designed to ensure career and college readiness. It is designed to prepare students for fourth course options relevant to their career pursuits. High school course content standards are listed by big ideas including Data and Statistical Reasoning, Probabilistic Reasoning, Functional and Graphical Reasoning, Patterning and Algebraic Reasoning, and Geometry Patterning and Spatial Reasoning.

This course is designed as the third course in a three-course series. This course enhances students' geometric, algebraic, graphical, and probabilistic reasoning skills. Students will apply their algebraic and geometric reasoning skills to make sense of problems involving geometry, trigonometry, algebra, probability, and statistics. Students will continue to enhance their analytical geometry and reasoning skills when analyzing and applying a deep understanding of polynomial expressions, proofs, constructions, rigid motions and transformations, similarity, congruence, circles, right triangle trigonometry, geometric measurement, and conditional probability.

Advanced Algebra C&C: Unit Descriptions:

Unit 1:	Descriptive and Inferential Statistics
Unit 2:	Exponential and Logarithmic Functions
Unit 3:	Investigating Radical Functions
Unit 4:	Modeling Polynomial Functions
Unit 5:	Investigating Linear Algebra and Matrices
Unit 6:	Trigonometry and the Unit Circle
Unit 7:	Exploring Rational Functions

Sign up for REMIND (parents are welcome to join)

Download the APP for remind	class codes:	1 st period Advanced Algebra: @1aldred1
		6 th period Advanced Algebra: @6aldred6

Materials Needed:

1. 3-ring binder w/ notebook paper
2. Dividers
3. Paper
4. Pencils
5. Pens
6. Highlighters
7. Scientific or Graphing Calculator
8. Graph Paper

Basic Classroom Rules:

1. Be respectful to all.
2. There will be no eating in class.
3. There will be no drinking in class (except water).
4. There will be no grooming in class.
5. There will be no foul language used in class.
6. Stay on top of your assignments and the work.
7. **Please place your cell phone in its holder immediately upon entering my classroom.**

Rule Violation Consequences:	1 st offense – Verbal Warning
	2 nd offense – Call Parent/Detention
	3 rd offense – Referral/Administrator

GRADING EACH SEMESTER

Major Assessments (Tests, Projects)	40%
Minor Assessments (Quizzes, classwork)	60%
End of each semester – cumulative exam	10%, with semester average 90%

Grading Policy

Homework: Homework is not required but is **necessary** to develop the skills to demonstrate mastery of the standards. Homework will be tracked. If homework is not completed regularly, parent contact will be made.

Major Assessments (40% of grade)

- There will be a minimum of 2 per 6-week progress report
- Unit tests, module tests, and tasks/projects, some quizzes with multiple standards covered
- **Reassessment:**
 - o One opportunity to be reassessed
 - o Reassessments are different versions of the original test
 - o If score improves, reassessment will replace the original score
 - o Must complete relearning plan set up by Mrs. Aldred to include:
 - Before/after school tutoring
 - Error analysis for the test
 - Complete all practice assignments (homework, worksheets, etc.)
 - Complete all missing minor assignments up to the test
 - o Must be completed within **7** days of receiving feedback on the previous grade. Please don't miss a reassessment opportunity due to a lack of planning.

Minor Assessments (60% of grade)

- There will be a minimum of 5 per 6-week progress report
- Occasional graded classwork – will receive feedback
- Quizzes – cover 1 or 2 standards (typically 1 – 2 sections of a unit)
- May assess a 5-point reduction for each day late up to 5 days after which I will not accept the work
- **No reassessment**

ALDRED – ADVANCED ALGEBRA

Period _____

I have read the syllabus and understand what is required of me for this school year.
I will perform all my work to the best of my abilities.

Student Name (Print): _____ Date: _____

Student Signature: _____

Parent/Guardian Contact 1:

Name (Print): _____ Date: _____

Signature: _____ Relationship to student: _____

Email (please print clearly): _____

Work Number: _____ Cell Number: _____

Mrs. Aldred may text this number

circle one YES NO

Parent/Guardian Contact 2:

Name (Print): _____ Date: _____

Signature: _____ Relationship to student: _____

Email (please print clearly): _____

Work Number: _____ Cell Number: _____

Mrs. Aldred may text this number

circle one YES NO