

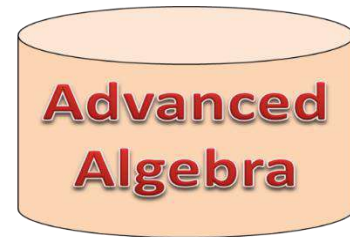
# ADVANCED ALGEBRA SYLLABUS

Luella High School, Henry County Schools

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## **COURSE DESCRIPTION**

This year-long course of advanced algebra is designed to take foundational algebraic concepts and build upon them by studying polynomial functions, rational and radical relationships, exponential and logarithmic functions, trigonometric functions and mathematical modeling. The overall purpose is to teach students to model everyday phenomena such as motion, finance, growth, decay, etc. using the basic relationships found in this course. Students will put to practice the basic standards of mathematical practice: Make sense of problems and persevere in solving them, reason abstractly and quantitatively, construct viable arguments and critique the reasoning of others, model with mathematics, use appropriate tools strategically, attend to precision, look for and make use of structure, look for and express regularity in repeated reasoning,

## **COURSE INFORMATION**

Unit 1 – Algebraic Foundations

Unit 2 – Polynomial Functions

Unit 3 – Rational and Radical Relationships

Unit 4 – Exponential and Logarithmic Functions

Unit 5 – Trigonometric Functions

Unit 6 – Mathematical Modeling

## **GRADING POLICY**

80% of the grade will be determine by assessments and 20% will be from a cumulative final exam.

## **STUDENT EXPECTATIONS**

All students will be expected to behave and follow procedures found in:

- Henry County Student Handbook
- Luella High School
- Teacher's Classroom

## **EXTRA HELP**

Both instructors will do their utmost to be available for additional help before/after school and during instructional focus. A tutoring schedule will be announced and posted in the classroom.

Students will be required to meet a minimum requirement of preparation before coming to tutoring which include **but** is not limited to: watching video lessons, bringing notes and written questions, paper/pencil/calculator/handouts and other needed supplies.



## **STUDENT MATERIALS**

2-inch hard binder (yearlong course), college ruled paper, pencils, colored pencils, dry erase markers, scientific calculator

(Casio FX300ES Plus, Casio FX-115ES Plus)

***Supply request for teacher: 1 ream of print paper***

## **ATTENTION**

The teacher reserves the right to change or modify any section of the course syllabus at any time during the semester to more adequately meet the needs, abilities, and interests of the students.

## **SYLLABUS RECEIPT VERIFICATION**

By signing below both the student and the guardian are verifying that they have read the contents of this syllabus and understand the expectations of the student.

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Student Name (LEGIBLE PRINT): \_\_\_\_\_

Guardian Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Guardian Name (LEGIBLE PRINT): \_\_\_\_\_