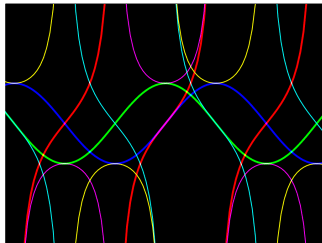


Algebra II

Sophomore Math - SY 2016-17



Course description

Algebra II is a continuation of the work students began as an Algebra I student, and will focus on using statistics to understand the world. This course will challenge your critical thinking, collaboration, and innovation while developing your mathematician skills. Content will be experienced largely through mini-PBLs and Problem-Based Learning that will challenge students to synthesize their knowledge.

Algebra II Learning Targets (May not be covered in this order)

LT1 - Rational Exponents: *I can simplify rational exponent expressions.*

LT2 - Complex Numbers: *I can operate with complex numbers.*

LT3 - Creating Equations: *I can write an equation using given information.*

LT4 - Solving 1-Variable Equations: *I can find complex solutions of 1-variable equations and determine if any are extraneous.*

LT5 - Systems of Equations: *I can find the solution of a system of equations and explain its meaning.*

LT6 - Zeros & Roots: *I can find the x-intercepts of a function.*

LT7 - Analyzing Functions: *I can compare and contrast key features of functions.*

LT8 - Combining, Composing & Transforming: *I can operate with functions.*

LT9 - Trigonometry: *I can apply algebraic thinking to trigonometric situations.*

LT10 - Structure of Expressions: *I can rewrite functions to highlight specific properties.*

LT11 - Sequences & Series: *I can represent patterns using sequences and series.*

LT12 - Descriptive Statistics: *I can use statistics to describe a set of data.*

LT13 - Inferential Statistics: *I can use statistics to draw valid conclusions and make appropriate predictions.*

LT14 - Probability: *I can use probability to make decisions.*

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Course calendar

QTR 1

- LT11 - Sequences & Series
- LT1 - Rational Exponents
- LT2 - Complex Numbers
- LT3 - Creating Equations

QTR 2

- LT4 - Solving 1-Variable EQs
- LT5 - Systems of Equations
- LT6 - Zeros & Roots
- LT7 - Analyzing Functions

QTR 3

- LT8 - Combining, Composing & Transforming
- LT9 - Trigonometry
- LT10 - Structure of Expressions
- LT12 - Descriptive Statistics

QTR 4

- LT13 - Inferential Statistics
- LT14 - Probability

***Calendar shows 1st appearance of LTs, not necessarily when they will be assessed.**

***Schedule is subject to change at teacher discretion.**

Grading Scale

Advanced (AD) = 100 A

Proficient (PR) = 85 B

Basic (BA) = 70 D

Below Basic (BB) = 50 F

Work Not Done or Missing = 0 F

Notebook Grade

Students will be expected to keep a lab notebook. Regular notebook checks will be included in the grade book as a Workplace Standard, using the rubric provided in class.

Extra Notes: *Intervention Charts will be followed for behavior, and bullying/harassment issues.*

