

Clayton High School/Middle School

Course Syllabus

Course Syllabus: NJSLA Math

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Course Description: This course is designed to prepare and equip students to succeed on the NJSLA standardized test to meet their graduation requirements.

New Jersey Student Learning Standards (abridged):

Arithmetic with Polynomials & Rational Expressions

Perform arithmetic operations on polynomials

Perform arithmetic operations using complex numbers

Factor real and complex numbers

Seeing Structure in Expressions

Interpret the structure of expressions

Use structure to rewrite functions into equivalent forms

Solving Equations

Create equations that describe numbers or relationships

Solve radical and rational equations

Solve systems of equations

Interpreting Functions

Interpret functions that arise in applications in terms of the context

Analyze functions using different representations

Explain the connection between a unit circle and trigonometric functions

Understand Congruence in Terms of Rigid Motions

Use geometric descriptions of rigid motions to transform figures and to predict the effect of a given rigid motion on a given figure; given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.

Understand Similarity in Terms of Similarity Transformations

Understand and apply dilations

Course Objectives:

- To increase and deepen student's knowledge of algebraic and geometric concepts
- To improve students critical thinking and test-taking skills
- To prepare students for NJSLA or equivalent exam

Grading System and Assessment of Student Performance:

Each Marking Period

60% TESTS / PROJECTS
given throughout a unit

30% QUIZZES
Given at the end of a lesson after students have practiced the skill

10% CLASSWORK / HOMEWORK
most assignments will be started in class
the majority will be graded to assess student skill level

The Whole Year

Cumulative average of each marking period grade earned

Expectations and Classroom Rules:

Students are expected to

- show respect to the teacher as well as fellow students
- participate in classroom
- try their best

Consequences for disrespectful behavior

- Detention
- Student sent to SGI
- Phone Call Home
- Parent Conference