

Bogota Jr. Sr. High School

8th Grade Math Syllabus

Teacher: Ms. Ingy Adam

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Class Website: check out the online school website

Course Description

By the end of grade eight, students will understand and use geometry, number sense, and algebra 1 a.

The standards are fully explained on NJSLA:

Website:

https://www.state.nj.us/education/standards/math/Docs/2016NJSLS-M_Grade8.pdf

NJSLA Standards

In Grade 8, instructional time should focus on three critical areas:

(1) formulating and

reasoning about expressions and equations, including modeling an association in bivariate

data with a linear equation, and solving linear equations and systems of linear equations

(2) grasping the concept of a function and using functions to describe quantitative relationships;

(3) analyzing two-- and three--dimensional space and figures using distance, angle, similarity,

and congruence, and understanding and applying the Pythagorean Theorem.

Content standards for Grade 8 are arranged within the following domains and clusters:

The Number System

- Know that there are numbers that are not rational, and approximate them by rational numbers.

Expressions and Equations

- Work with radicals and integer exponents.
- Understand the connections between proportional relationships, lines, and linear equations.
- Analyze and solve linear equations and pairs of simultaneous linear equations.

Functions

- Define, evaluate, and compare functions.
- Use functions to model relationships between quantities.

Geometry

- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand and apply the Pythagorean Theorem.
- Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.

Statistics and Probability 2nd Semester

- Investigate patterns of association in bivariate data.

Textbook/Publisher

Mathematics Course Envision and online is Savvas Realize

Grade Math Syllabus Requirements: Supplies

Students are required to bring the following items to class every day.

1. Binder (2 in)/folder
2. #2 pencils with erasers/ sharpener
3. Red pens
4. Scientific Calculator (Casio or Texas Instruments)
5. 1-3 boxes of tissues (for extra credit)
6. 1 container of wipes

Rules & Classroom Management Policies

Students are expected to come to class every day prepared and ready to learn with a positive attitude. Students are required to act in a behavior conducive to learning, according to the Bogota Public Schools code of conduct, and those rules established by the district. If students are not able to follow the rules, they will be disciplined according to the steps and procedures detailed in the Student Handbook. And finally, the no-phone policy is very strict.

Classroom Grading & Evaluation Policy

Students will receive a grade based on the following categories:

Tests 50%, projects/ quizzes 30%, and Classwork, HW 20%

A 100 – 90

B 89 – 80

C 79 – 70

D 69-65

F 64 and below

Classwork: Participation in class activities and class assignments is important to informally assess student learning and understanding. All students are expected to participate in class. Students will receive a participation grade daily. Participating in note-taking is a part of the class experience. Students are expected to take notes in their composition notebooks or 3-ring binders. The notes can be used on the standards-based quizzes. Students are responsible for any work missed during the instructional hour.

Projects: Students will be given projects periodically throughout the semester. Some of the projects include Common Core Georgia Performance Standards tasks. Students will receive information on these projects as the date arises. Students will be given ample time to complete projects, in some cases, extra class time. Students will be graded on a rubric, which will communicate the expectations of the project and assess specific criteria of the assignment.

Homework: Students will receive homework Monday-Thursday to reinforce key math concepts. Students are expected to complete and turn in all homework promptly. Homework is usually due the next day, unless otherwise specified by the teacher. In most cases, homework will be graded on effort and completion.

Quizzes: A quiz will be given at the conclusion of every week in preparation for the Unit test. Students are allowed to replace previous quiz grades, satisfactory or

unsatisfactory, with the current week's quiz, so long as there is a parent signature on the previous quiz.