



**PLAN DE ESTUDIOS/SYLLABUS 2022-2023**  
SECUNDARIA/ SECONDARY SCHOOL  
**10th GRADE**

**ALGEBRA II**

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**LIFE AHEAD METHODOLOGY**

Personal growth is assured through the philosophical foundations, and the school's Life Ahead Methodology. The Life Ahead Methodology promotes autonomy, organization, responsibility, and social skills. Its major goal is to produce self-reliant individuals who will assume an ever-greater responsibility for their own learning.

**COURSE DESCRIPTION**

This course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as Real numbers, functions, and systems of equations, advanced polynomial operations, factoring and solving quadratic equations.

**OBJECTIVES**

The students will be able to:

- Recall and apply basic Algebra skill like Order of operations (PEMDAS)
- Identify the different sets of Real Numbers.
- Solve equations and inequalities.
- Graph linear and absolute value functions.
- Write and interpret the equations of a line in different ways.
- Perform 4 operations on polynomials
- Factor polynomial expressions using different techniques.

**SKILL STRANDS**

The students need to:

- Perform basic order of operations.
- Solve equations and inequalities.
- Work with exponents.
- Work with polynomials.
- Perform High factoring.
- Graph linear functions using the Coordinate Plane.

**CONTENT**

- Real numbers.
- Inequalities.
- Exponents.
- Relation and functions.
- Graphing absolute values functions.
- Linear equations.
- Systems of equations in 2 and 3 variables.

- Polynomials.
- Factoring

### TEXTBOOK

- Algebra and trigonometry Addison Wesley
- Reference book: Algebra 2 Holt, Algebra Prentice Hall

### EXPECTATIONS

The student must:

- Be able to work during class time.
- Be able to respect the teacher and classmates.
- Be able to take notes during class time following special format
- Be able to catch up with all the work done in class when absent.
- Be able to remain quiet when the teacher is explaining.
- Be able to wait for his/ her turn to ask and answer questions.
- At the end of the year the student must
- Be able to identify and work with the different sets of Real numbers.
- Solve linear equations
- Be able to identify, and evaluate algebraic expressions .
- Be able to work with exponents and polynomials.
- Be able to graph linear functions.
- Be able to Factorize polynomial expressions.

### ASSESSMENT

60% Tests and Quizzes.

40% Homework and Quizzes

50 % Midterm.

50% Final.

Midterm and Final Exams are the fifth period.

### WEEKLY FOLDER

Every week each student is taking home a folder with quizzes and tests done in one or two week's 's period.

### APPOINTMENTS:

If you have any questions, you can request a meeting with the teacher by sending an email to [iamaya@colegiomaya.edu.sv](mailto:iamaya@colegiomaya.edu.sv) or calling 2316-7800.

For further information, we invite you to visit us at:



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