



**PLAN DE ESTUDIOS/SYLLABUS 2020-2021**  
SECUNDARIA/ SECONDARY SCHOOL  
**9no GRADO**

**GEOMETRY**

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**LIFE AHEAD METHODOLOGY**

The School is following life's ahead methodology in the classroom.

1. The teacher explains and the students pay attention.
2. The students work independently to see if they have understood the topic.
3. The students work in groups to solve doubts and help other students.
4. The students have feedback of the work they did.

**COURSE DESCRIPTION**

Geometry is a course that opens the vision to the world and the Universe.

Learning about patterns, triangles, polygons, area, perimeter, surface area of 3D figures and volume of solids. It is a course where the students face the shapes in everything around them. Almost at the end of the year the students will learn about trigonometric ratios to find the length of an apothem to find the area of any polygon.

**OBJECTIVES**

Identify the different shapes that we see in our environment. To learn how to find the perimeter and area of flat shapes and their applications. To identify the 3D figures, their surface area and volume. To realize that if we understand geometry, we can understand our world and apply it to our daily lives.

**CONTENT**

Patterns.

- Building blocks of Geometry (points, lines, planes.)
- Angle relationships. Adjacent, complementary, supplementary, and
- Angles between parallel lines. Slopes, equations of lines.
- Coordinate Plane. Distance between two points and midpoint of a segment.
- Triangles: Congruence, Especial segments, area and perimeter. Trigonometric ratios. Especial triangles.
- Circle: Area and circumference
- Quadrilaterals: Properties, diagonals, sides, area and perimeter
- Polygons. Properties, angles inside a polygon, area and perimeter.
- Solids: Surface area and Volume.

**SKILL STRANDS**

The students need:

- To use order of operations from their algebra I.
- To solve linear equations, Pythagorean Theorem and simultaneous equations for application problems.

## TEXT BOOK

- Geometry Mc Dougal Littell.
- Reference Book: Geometry Pearson 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 all the work done in class when absent.
- Be able to remain quite when the teacher is explaining.
- Be able to wait for his/ her turn to ask and answer question.
- At the end of the year the student must
- Be able to Identify triangles and find the area and perimeter.
- Be able to work with angles and identify angle's relationship.
- Be able to identify quadrilaterals , angles inside them , area and perimeter.
- Be able to identify and work with any polygon, finding its area and perimeter.
- Be able to find area and perimeter of composite functions.
- Be able to find the surface area , and volume of 3D figures.

## ASSESSMENT

60% Tests and Quizzes.

40% Homework and Quizzes

50 % Midterm.

50% Final.

Midterm and Final Exam 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.

### CITAS

Si necesita consultar o expresar alguna inquietud sobre el desarrollo o evaluación de la materia, puede solicitar una entrevista con el (la) docente en recepción al 2316-7800 o enviar correo electrónico a [iamaya@colegiomaya.edu.sv](mailto:iamaya@colegiomaya.edu.sv)

### INFORMACIÓN

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