



PLAN DE ESTUDIOS/SYLLABUS 2022-2023
SECUNDARIA/ SECONDARY SCHOOL
9th GRADE

GEOMETRY

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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

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 . Naming points, lines, rays, and planes.
- Segments and Angles.
- Angle relationships.
- Angles between parallel lines. Slopes, equations of lines.
- Coordinate Plane. Distance between two points and midpoint of a segment.
- Triangles: Congruence, Special segments, area and perimeter. Trigonometric ratios. Special 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.

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.
- 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 name points, angles, rays and planes properly.
- Be able to identify triangles and find the area and perimeter.
- Be able to work with angles and identify angle relationships.
- 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 the area and perimeter of composite functions.
- Be able to find the surface area, and volume of 3D figures.

APPOINTMENTS:

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

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



www.colegiomaya.edu.sv



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