

SYLLABUS 6TH GRADE SCIENCE

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

Science course covers several types of science such as biology, geology, physical science, and ecology. The course helps students understand the similarities and differences between single-celled and multi-celled organisms, and the characteristics and structures of plants and vertebrate animals. Students will learn about processes such as weathering, erosion, and deposition that have shaped Earth's surface over many years and will analyze data that provides evidence of the movement of Earth's plates. The course helps students identify how force pairs affect the movement of objects, and the effect that gravity has on matter. This course also includes studying the foundations of ecology, and how living things meet their needs through interactions with the environment. The course concludes with the study of the Scientific Method, identifying the different methods involved in scientific investigations.

Science course is organized in five bodies of science: Single-celled and multi-celled organisms, Plants and Vertebrate animals, Geologic processes, Forces, Gravity and Motion, and Ecology.

OBJECTIVES

Students will be able to:

- Recognize that all living things, single-celled or multi-celled, share common characteristics.
- Develop an understanding of the similarities in survival needs among all living things.
- Understand the structure, composition and processes of the earth from the center to surface, and the processes that have shaped the earth and its landforms.
- Develop an understanding of the relationship among force, mass, and acceleration.
- Understand how matter and energy together support life within an environment.
- Identify the different methods involved in a scientific investigation.

CONTENT

- Single-celled organisms and viruses
- Multi-celled organisms
- Vertebrate animals
- Weathering, erosion, and deposition
- The Rock cycle
- Earth's plates
- Forces, gravity, and motion
- Ecosystems and Biomes
- Human impact on ecosystems
- Scientific Method

SKILL STRANDS

- Identify the two groups of single-celled organisms
- Recognize how protists are a diverse group of organisms
- Compare and contrast animals as consumers, plants as producers, and fungi as decomposers.
- Characterize the five main groups of vertebrates: fish, amphibians, reptiles, birds, and mammals.
- Describe how the rock cycle involves the cycling of matter and the flow of energy.
- Describe how weathering, erosion, and deposition have shaped Earth's surface.
- Describe the effect that gravity has on matter
- Describe how living things within an ecosystem interact with each other and the environment.
- Describe how scientific investigation has had a tremendous impact on society throughout history.
- Identify the different types of scientific investigations.

TEXTBOOK:

Life Science (McDougal Littell)

EXPECTATIONS

- Bring all necessary material to class
- Speak English at all times, including during group work with peers.
- Make notes when reading is assigned, and during class
- Access information through reading a variety of sources
- Finish work in the allotted time
- Turn in homework on time
- Participate actively in class
- Make up for any missed evaluation and/or classwork
- Treat others respectfully

ASSESSMENT

Students' grades will be based on a variety of assignments such as class work, homework, quizzes, tests and individual/cooperative work projects. The weight of each category is as follows:

40% Classwork and homework

60% Exams, Quizzes, Projects, essays

WEEKLY FOLDER

Students' evaluations will be sent home in the Friday folder. It is important to review this work. Please sign and return the folder each Monday.

OTHERS

Project guidelines, assignments, and important due dates will be sent via Google classroom to the students. Students will have the opportunity to improve all test grades by making corrections, except semester and final exams.

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



[/colegiomayadeelsalvador](https://www.facebook.com/colegiomayadeelsalvador)



[colegio.maya](https://www.instagram.com/colegio.maya)

V. 2063