

SYLLABUS 7TH GRADE LIFE 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

Life Science course deals with life science, or basic biology. It provides the students with the opportunity to learn that the course is the study of living things, and comprises all fields of science that involve the study of organisms, including the study of the Scientific Method. The course introduces students to the study of the cell, as the basic unit of life, and focuses on an explanation of how living things inherit traits in patterns. The course explores the classification of living things, and common characteristics and differences between domains and kingdoms of life. Students will also learn how scientists use fossils to learn about Earth's history, and about the evidence that supports evolution. This course introduces students to the stages and characteristics of human populations, as well as how the human population interacts with the environment. The course concludes with an overall study of human biology, emphasizing how an adequate diet and exercise are part of a healthy lifestyle.

OBJECTIVES

Students will be able to:

- Explain how cells are the basic unit of form and function in all living things
- Describe the levels of organization of multicellular organisms.
- Describe the functions of cell division in multicellular organisms.
- Explain how biological information passes from one generation to the other.
- Understand how fossil records provide evidence about the history of life on Earth.
- Understand how the diversity of life is organized in groups.
- Understand that populations are shaped by interactions between organisms and their environment.
- Describe how the human body is made up of systems that work together to perform the functions necessary for life processes.
- Understand how the human body changes over time, and learn what a body needs to be healthy.

CONTENT

- Cell, basic unit of life
- Photosynthesis and Cellular respiration
- Scientific Methods
- Cell division
- Patterns of heredity
- History of life on Earth
- Classification of living things
- Population dynamics
- Human Biology
- Interactions of body systems

- Growth, development, and change
- Healthy lifestyle

SKILL STRANDS

- Understand the cell as the basic unit of life, its organization in the body, and how plant and animal cells are different.
- Analyze how photosynthesis and cellular respiration are complementary processes necessary to the survival of most organisms on Earth.
- Recognize how scientists answer questions about the real world.
- Describe the functions of cell division in multicellular organisms.
- Explain how living things inherit traits in patterns.
- Infer how patterns of heredity can be predicted.
- Explain how living things change over time.
- Describe the types of evidence that support evolution.
- Recognize why scientists classify living things
- Explain what characteristics and variables define a population
- Describe and explain how human populations affect ecosystems.
- Develop an understanding of how the human body is made up of systems that work together to perform necessary functions.
- Understand how diet and exercise are part of a healthy lifestyle.

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



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