



Course Descriptors
2019 - 2020
Semester 1

Biology
Mathayom 6



EIP Mathayom Course Description Second Year

Subject: Core Biology
Grade: Mathayom 6
Periods: 4

Department: Science
Course Code: SC32245
Credit: 2

Course Material:

Modern Biology, Holt, Rinehart and Winston

Course Description:

The third year of the Core Biology Course will fill in any gaps and create a whole understanding of Life Sciences. This course will explain the relationships between everything that was studied during the first two years of Core Biology.

This biology course is an elective optional course for students wishing to pursue science-based careers after graduation. Sections of the previous years will also be covered in significantly more detail than previously. This course will prepare students for lecture-style university courses and gain a more in-depth knowledge of Biology. Biology topics will range from the cellular-molecular level in animals to genetics, anatomy, and physiology, among others.

Course Objectives:

1. Describe the organization of animal tissues and organ systems
2. Understand the principles of cellular life in both plants and animals
3. Understand the principles of cellular life in both plants and animals
4. Demonstrate a deeper understanding of genetics, cell reproduction and heredity
5. Gain knowledge in the impact of computer technology in the field of Biology



EIP Mathayom Course Outline
First Semester

Unit 10 – Anatomy and Physiology

Chapter 48 – Digestive and Excretory Systems

- Nutrients
- Digestive System
- Urinary System

Chapter 51 – Reproductive System

- Male Reproductive System
- Female Reproductive System
- Gestation

Chapter 49 – Nervous system

- Neurons and Nerve impulses
- Structure of the Nervous system

Unit 3 – Genetics

Chapter 10 – DNA, RNA, and Protein Synthesis

- Discovery of DNA
- DNA Structure
- DNA Replication
- Protein Synthesis

Chapter 11 – Gene Expression

- Control of Gene Expression
- Gene Expression in Development and Cell Division

Chapter 13 – Biotechnology

- DNA Technology
- The Human Genome Project
- Genetic Engineering



EIP Mathayom Evaluation and Grading
First Semester

Breakdown of Grades

Criteria	1 st quarter	2 nd quarter	Total
Homework	5%	5%	10%
Participation	5%	5%	10%
Behavior	5%	5%	10%
Labs/Group Work	5%	5%	10%
Tests/Quizzes	20%	20%	40%
Final Examination		20%	20%
Total	40%	60%	100%