



**SAINT GEORGE  
SCHOOL**  
FOUNDED 1965



Porfirio Herrera No. 6, Ensanche Piantini.  
Santo Domingo, D. N. Rep. Dominicana



T. 809 562 5262 F. 809 562 5015  
[www.stgeorge.edu.do](http://www.stgeorge.edu.do)

## **LIFE SCIENCE, 7<sup>TH</sup> GRADE**

Teacher: Miguelina Coronado

Email: [mcoronado@saintgeorge.do](mailto:mcoronado@saintgeorge.do)

Academic year: 2011-2012

### **1. INTRODUCTION AND DESCRIPTION OF COUSE :**

Life Science reveals the world of living things to students of 7<sup>th</sup> grade. Throughout the year, they will be discovering the essential aspects of life, from the tiny living cell to the very complicated human body systems. They will walk to the path of evolution to understand how living things have changed overtime and the different ways they reproduce to preserve species.

### **2. SKILLS**

- Describe and apply the scientific method in simple experiments.
- Identify three types of models and give examples.
- Describe the characteristics of living things and their needs.
- Describe the chemical building blocks of cells.
- Explain why cells are so small, describe the parts of the cell and explain their function.
- Explain the processes that occur inside the cell (osmosis, diffusion, photosynthesis, cellular respiration).
- Differentiate between prokaryotic and eukaryotic.
- Describe the processes of cell division and differentiate between mitosis and meiosis.
- Explain how traits pass from parents to offspring.
- Explain how organisms have changed over time.
- Differentiate between bacteria and viruses
- Explain how living things interact in an ecosystem, and the importance of the cycles of matter in this interaction.
- Describe how the body is organized and explain the function of each of the organs in the organ systems.
- Explain how organisms reproduce.
- Differentiate between sexual and asexual reproduction.
- Identify the stages of human development from birth to death.
- Describe how the body fights diseases.
- Discuss how drugs affect your physical, social, and mental health.



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### **3. CONTENT**

<b>UNIT 1: The Study of Living Things</b> Science, The Scientific Method, Scientific Models Characteristics of Living Things, Necessities of Life,	<b>August 29 – September 23</b>
<b>UNIT 2: Cells</b> Chemistry of life, Organization of Life Exchange with the environment, Cells energy, Photosynthesis and cellular respiration, The cell cycle, Meiosis	<b>September 26 – October 21</b>
<b>UNIT 3: Heredity and Evolution:</b> Mendel and his peas, Meiosis, Genes, DNA, Natural selection, Evolution, The Geologic Time Scale, Human Evolution	<b>October 24 – November 23</b>
<b>UNIT 4: Simple Organisms, Fungi and Plants</b> Bacteria and Viruses, Life cycle of Plasmodium Vivax	
<b>UNIT 6: Ecology</b> Web of Life, Living Things need Energy, Habitat and Niche.Cycles of Matter, Environmental Problems and Solutions	<b>January 11 – February 17</b>
<b>UNIT 7: Human Body Systems</b> Body Organization and Structure, Skeletal system, MuscularSystem, Integumentary System. The Cardiovascular System, Blood, Respiratory System, Digestive System, Urinary System, Nervous and Endocrine Systems Senses Reproduction: Asexual and Sexual Reproduction Human Reproduction Growth and Development	<b>February 14 – March 18</b>  <b>February 20 – March 23</b>
<b>UNIT 8: Human Health</b> Disease, Body’s defenses, Risk of alcohol and other drugs.	<b>March 26 – May 15</b>

### **4. TEXTBOOKS AND OTHER RESOURCES :**

Life Science, Holt & Science Technology  
Life Science Study Guide, Holt & Science Technology  
Password, Science Vocabulary  
<http://school.discoveryeducation.com/>  
<http://www.studybulb.com/>  
and others.

\* These core texts do not make up the entirety of the printed resources to be used in the course. Other resources will include:

\*Students are expected to have the following material for class:

The students must have basically a notebook, paper, markers, glue, scissors, and a lab coat. Depending on the activity the teacher will ask for other materials.



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### 5. TEACHING STRATEGIES:

In order to fulfill the objectives of the class, many teaching strategies will be implemented, among others we'll have lectures, group activities, class presentations, watching videos and/or documentaries, oral presentations, research, questionnaires, definitions, problem solving, brain storming, organizing information in different formats (charts) and laboratory activities

### 6. EVALUATIONS :

The grade of the student will be based in the following aspects and correspondent percentage:

Classwork	30%
Projects	15%
Laboratory	15%
Conduct	10%
Tests	15%
Quizzes	5%
Notebook organization and completeness	5%
Participation in class/Group work	5%

### 7. OTHER REMARKS REGARDING OUR CLASS :

It is expected that the students follow a code of conduct according to school regulations. When in class, in order to promote a learning environment, certain rules must be followed:

- 1.- Treat teacher and classmates with respect and courtesy.
- 2.- Ask for a turn to speak.
- 3.- Listen to what others have to say.
- 4.- Contributes to the cleanliness and organization of the learning environment.
- 5.- Hand in work on time and neat and organize.
- 6.- Bring all necessary materials to class.
- 7.- Keep the notebook complete, neat, and organize.
- 8.- Ask for permission to stand up (it must be a good reason).
- 9.- Mistakes are welcome. We'll convert them in learning points.
- 10.-Respect wait time.

#### Some important procedures:

- ♦ Homeroom time begins at 7:15 a. m. and ends at 7: 30 a. m.. Punctuality is a must and students will come to immediately prepare for the day.
- ♦ At the beginning of each class students will have all the materials for that class ready, before the teacher comes in.
- ♦ Students will stand up and greet any visitor with a simple "Good morning or good afternoon" .

#### Assignments:

They must be handed in on time. Late assignments will be penalized with a number of points off depending on how far from the due date it is turned in (5 points per day, and no more than a week late; after a week a 0 will be assigned).



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Typed assignments will have a specific format. In the case that other is not specify, the format will be :

Font: Times New Roman

Pitch: 12

Line spacing: 1.5

### Notebook Heading:

Notebooks pages must have a heading. This heading must contain the following information:

- name of the student (left on first line)
- date of the assignment (right on first line)
- subject (centered, second line)
- objective of the day (below the subject name)

### Laboratory Activities:

Experiments are essential parts of science learning, that 's why students must take this activities seriously and participate and cooperate when performing them. It is required that students bring their lab coats and behave in an appropriate way since there is delicate and expensive equipment that can get damage if misused. Also this will contribute to the security of the students by avoiding accidents that can get them hurt.

A Lab Report following the scientific method must be turned in after each lab activity. It must contain :

Name of the activity

Objective

Hypothesis

Materials

Procedure

Observation

Conclusion