



Year of The Wildebeest (Gnu)

Biology Course Syllabus/ Grade 9 2018 – 2019 School Year.

Course Description

Teachers: Mrs. Suba Srikumar

General Science Skills- Observation, Data collection, graphing, measuring, Metric system, Scientific methods, Lab reports. We will be learning about these ideas at the beginning of the year, but will be using them as the basis for all our work throughout the year. All science courses are laboratory oriented classes. The development of critical thinking processes and proficiency in scientific reading and writing will be emphasized throughout the course. This year Grade 9 will be taking only Biology. It is a study of living organisms and their interrelationships which includes cell biology, the structure and function of organisms, ecology, changes over time, human body and health.

Each trimester students will be exploring different areas of Biology that includes,

Trimester 1 Students will learn

Cell Biology

Cell Biology is the study of structure and function of a cell. This topic mostly emphasis is on biological chemistry, cell structure and function, cellular metabolism and transport and cell cycle.

- Understand the cell theory
- Develop a deeper understanding of different type of cell, their structure and how it relates to cell functions.
- Understand cell movement and how it is accomplished.
- Understand the way energy use in cells. Ex. Photosynthesis, cellular respiration

Trimester 2 Ecology.

Ecology is the study of the interactions between organisms and their environment. This course provides a background in the fundamental principles of ecological science, including concepts of natural selection, the study of different types of populations and their interactions, communities and ecosystems.

And also include population structure and growth, species interaction, energy flow, nutrient cycling, succession, and applications to current environmental management issues. Students perform ecological experiments in the field as well as in the laboratory

- Various types of interactions and how scientists study them
- The role of organisms in transferring energy in food chain and food web.
- How Earth is divided into biomes
- Human impact on ecosystems.



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Trimester 3

Classification and Diversity.

Diversity of Life Course introduces students to the big picture of life on Earth. They discover that all living things share the same basic characteristics. All organisms are composed of cells, and a single cell is the fundamental unit of life. Scientist classify all the living things into special groups which are collectively called as classification of living things. The classification of living things includes 7 **levels**: kingdom, phylum, classes, order, families, genus, and species. The most basic classification of living things is kingdoms

Currently there are six kingdoms Students then explore the relationship of organisms to their environment, and recognize life as a temporary condition experienced for various lengths of time by all living things.

Students will learn

- Identify the three domains in the tree of life as Bacteria, Archaea and Eukarya
- Understand viruses and prokaryotes.
- Understand that the kingdom protista is the most diverse of all kingdoms.
- Know the structure and function of Fungi.
- Understand the origin and diversity of plant life.

UPPER SCHOOL COMMON DISCIPLINE POLICY

- 1) Follow all school and classroom rules.
- 2) Respect yourself, others, and all properties.
- 3) Come to school prepared to learn.
 - Be on time to class
 - Bring textbooks and all necessary materials to class
 - Put mobile device away during class time
- 4) Dress appropriately (no short shorts)

GENERAL WARNING & CONSEQUENCES

- 1) First time, student receives a warning.
- 2) Second time, student write a reflection paragraph explaining why the incident occurred.
- 3) Third time, parent notice,
- 4) Fourth time, team conference with parent and student.

If students are not able to follow the class rules, they will be disciplined according to the steps and procedure detailed in the Student Handbook.

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Grading and Evaluation. Follow the jupitered.com

Tests and Quizzes	30%	A	100 - 90
Class work	20%	B	89 - 80
Homework	10%	C	79 - 70
Class Participation	10%	D	69 - 60
Projects and lab	20%	F	59 and below.
Final Exam	10%		

If your son or daughter earns a test grade of C or lower, please encourage your child to visit with me about ways to improve his or her progress.

Classwork.

Class work is defined as student work that is **required to be completed within the classroom**. Class work cannot go home for completion. Class work is to be completed in the classroom for a daily grade. Students are expected to complete all assignments during class time.

Quizzes and Tests.

There will be quizzes during each lesson, a unit test at the end of each chapter, chapter test at the end of each unit. Quizzes are not as rigorous as tests, but still require studying. Students will be given advance notice for all quizzes and tests. There will be study guides for all tests.

Homework

Students will receive homework every day to enforce key science concepts.

Students are expected to complete and turn in all homework in a timely manner. Homework is usually due the next day. In most cases, homework will be graded on effort and completion.

Late Homework

1. Full credit will be given for assignments turned in on the due date.
2. If you need more time, place the homework in "Need Time" tray
3. Late assignment will be accepted for seventy-five percent (75%) credit within the first week of the assignment.
4. Assignment will not be accepted for a grade after the first week of the original due date.



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Absent work Policy

Students who are absent from school have the responsibility of collecting missed assignments from the teacher. Students that have to be absent for an extended period of time should make arrangements with the teacher to complete missing work as quickly as possible.

Projects

Students will be assigned many short term projects periodically throughout the year and on long –term project at the end of the year. The project will be accompanied by a rubric, given in advance to the students, to determine how to complete the projects. Students should understand that the long-term project (science fair projects) will be difficult to complete if they do not give the project ample time.

Please know that it is my priority to ensure that each student has adequate assistance and ample opportunity to succeed in this class. If throughout the year you have any questions about the class or your child's progress, please feel free to contact me at subasrikumar@aismonrovia.com.

Unit plans for this course will be updated regularly on Jupitered.

Sincerely,

Suba Srikumar