



Year of The Wildebeest (Gnu)

Science Course Syllabus/Grade 8
2018 – 2019 School Year.

Teachers: Mrs. Suba Srikumar.

Course description:

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. Science syllabus covers all three branches of science, Life science, Physical science and Earth science. All science courses are laboratory oriented classes.

Students will learn

Life Science

- Understand the characteristics of cells, cell structure and functions.
- Understand the process of mitosis and meiosis and its role in sexual reproduction.
- Analyze the inheritance of traits in individuals
- Explain how patterns of heredity can be predicted by Punnett squares and pedigrees.

Physical Science

- Understand the way that how atoms can interact with each other and describe The interaction in ionic, covalent and metallic bonds.
- Use the balanced chemical equations to model chemical reactions.
- Understand the physical and chemical properties of acids and bases.
- Electricity and Magnetisms-Understand that energy is a property of many substances. - electrical energy is in the attraction or repulsion between charges.
- understand the relationship between work, energy and power, identify the six simple machines and their work.

Earth Science

- The Solar system- Planets and a variety of other bodies form a system of objects Orbiting the sun.
- Earth-Moon-Sun System- Understand what causes seasons, moon phases, Eclipse
- Universe- Properties of Stars, Stages and life cycle of stars.

Textbook

- Science Fusion Unit A- Cells and Heredity.
- Science Fusion Unit H- Matter and Energy
- Science Fusion Unit G- Space Science.

Liberian Physical Address
Old Road, Congo Town
Monrovia, Liberia

Director: Jeff Trudeau
Telephone: 00231(0)777-818-775
Email: jefftrudeau@aismonrovia.com

Liberian Mailing Address
American International School of
Monrovia
P.O. Box 1625
Monrovia, Liberia

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Each Trimester students will be learning different branches of Science. Every student will be issued a text book. Students are responsible for Keeping their text books in good conditions.

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.

Grading and Evaluation. Follow the Jupiter. Ed

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.

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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.

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

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