

Name: _____

Mrs. Gallo & Mrs. Eastwood

Date: _____

Room 611



Life Science: Biology Syllabus

Welcome to the exciting and fascinating world of science! If you participate fully in the learning process, you will gain a clear understanding and appreciation of the importance of science to your life and to our society as a whole. This is a full year (two semesters) course that will prepare you for the New York State Regents Living Environment exam in June which will count as

a 5th quarter grade (20%).

In this course, Units are structured using the 5E model (Engage, Explore, Explain, Elaborate, Evaluate), which promotes an inquiry-based approach to learning. The curriculum includes performance tasks that require students to apply scientific concepts to real-world problems, fostering deeper understanding. **There are two mandatory components in this course: lecture and laboratory.** Participation in the lab is mandatory and all assignments in the lab must be successfully completed in order to pass this class and to be eligible to take the Regents exam in June. This includes successful completion of at least **1200 minutes** of laboratory work and the **3 mandatory investigations** (state labs) before being eligible to take the New York State Life Science Biology regents exam in June.

Phenomenon/Units to Be Covered:

1. Marathon Runner:

Explores cellular respiration, energy, thermoregulation, body systems, and homeostasis through the lens of a marathon runner.



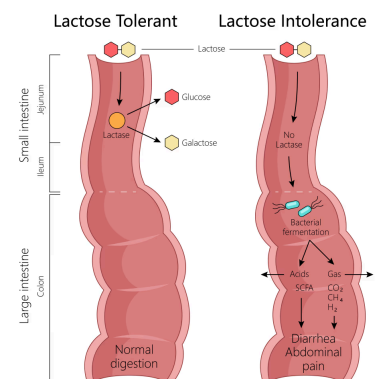
2. Humans vs. Bacteria:

Focuses on infectious diseases, the human immune system, and antibiotic resistance.

Explores evolution, genetics, and the interaction between humans and microorganisms.

3. Evolution of Sick Humans:

Examines how human evolution is intertwined with environmental changes and modern health challenges. Covers genetics, inheritance of traits, DNA, and protein synthesis.



4. Saving the Mountain Lion:

Uses the case of a mountain lion to investigate conservation, population dynamics, and environmental impact. Covers topics of Reproductive system, evidence of evolution, genetic variation, gene flow.

5. Food for All:

Addresses the flow of energy and matter in ecosystems, and the challenges of providing food for a growing population. Focuses on photosynthesis, energy flow in the food chain, energy pyramids, and carrying capacity.

6. Woolly Mammoth:

Focuses on topics like DNA, genetics, and the process of evolution by studying the woolly mammoth. Investigates ecosystem dynamics, biodiversity, extinction, and human impact on the environment.



Class Rules:

1. Come **prepared** to class with all necessary materials when the period starts. Copy the '**Aim**', answer the '**Do Now**', and write down the **homework** assignment.
2. Respect others by not talking while a classmate, Mrs. Eastwood, or Mrs. Gallo is talking. Listen to others while they are speaking. Respect the classroom by cleaning up after yourself.
3. **No** food, drinks (except water), gum chewing, or non-educational materials are permitted in class.



4. Cellphones and other electronic devices (iphones, itouches, ipads) are **not** allowed during class time. ALL CELLPHONES MUST BE IN YOUR LOCKER.

Any cellphone in sight will be confiscated and reported to the grade level Assistant principal. The consequence will follow the cellphone policy that was provided to you by the school.

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Supplies:

- 1) 1 ½-2 inch binder for notes, labs, homework, and classwork
- 2) Pencils, pens, highlighters, loose lined paper
- 3) Colored Pencils, ruler, white out
- 4) Folder for additional classwork or packets
- 5) Chromebook - charged



Grading Policy:

- 55% Exams
- 10% Quizzes
- 20% Labs
- 15% Participation/Homework (Do Now's, Exit tickets)

- ✓ **If you are absent:** make sure that you ask for class notes and homework (**it is your responsibility**). If your absence is unexcused you do not have the opportunity to make up the missed work.
- ✓ Do not miss a lab. If you miss a lab it is your responsibility to make up the lab in your free time.
- ✓ Unexcused absences will NOT allow you to complete the lab.
- ✓ Any assignment turned in late will receive deductions. The number of points deducted will depend on the number of points possible.
- ✓ Any lab not turned in will be given a grade of zero and not be counted towards the minutes for the regents.
- ✓ If you are not sure what you missed, please check **Google Classroom** and ask Mrs. Gallo or Mrs. Eastwood. Please let us know if you will be absent for an extended period of time.
- ✓ 3 unexcused lates will result in an absence. 3 unexcused absences or lates will result in an attendance referral.
- ✓ **Extra Help:** After school 2:10 - 2:45 pm Tuesday-Friday or by appointment.
- ✓ **Contact Information:** if you have any questions you can email us at: rogallo@shufsd.org or ceastwood@shufsd.org

I have read and understand the policies in place for the 2026/2027 school year for Life Science: Biology . Please sign the bottom and return this page.

Name: _____

Signature: _____

Parent signature: _____

Date: _____