Welcome to Biology!

Biology Information and Syllabus

3rd Block 12:15 – 1:45

Instructor: Mrs. Kristie Graham
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Course Description:

The biology curriculum is designed to continue student investigations and deepen student understanding of the biological sciences. This course is an introduction to the study of living organisms and their interactions with their environment. It includes information about problem solving, making observations, and comparisons. This course further introduces the central concept of the cell, the molecular basis of heredity, biological evolution, the interdependence of organisms, matter, energy and organization in living systems, and the adaptive responses of organisms. Students will explore this subject through many different means, including, but not limited to, Google Classroom, Illuminate, classroom reading, writing, discussion, and laboratory activities. A major goal of this course is to prepare students for the proper study habits required to succeed in the biology program.

REQUIRED Materials

Charged Chromebooks
1" 3 Ring Binder
Paper
Pencil or Pen

SUGGESSTED Items

scissors, color pencils/markers, eraser, sharpener, ruler

It is a REQUIREMENT that you have your charged chromebook on test days. Failure do so will result in having to reschedule and receiving a missing grade ('0') until assessment is taken. This is the student's responsibility.

Grading Scale:

- 40% Practice (classwork, homework, quizzes, labs, etc…)
- 40% Assessments
- 20% Comprehensive Exam / GA Milestones

Most days, students will receive content related homework, based on either review or new topics. Students are expected to complete their homework. In addition, it is vital that students also study their notes to master the topics for exams. Students will need to submit their homework at the BEGINNING of class.

Google Classroom:

Students must check Google classroom everyday.

LATE/MAKE UP WORK (-10% late; -50% if key has been posted)

Missed work will earn a grade of zero until made up. Students will need to make up quizzes, tests, and assignments prior to the end of the unit. **Students will NOT be allowed to submit missing homework, classwork, or projects after the end of the unit.** At the end of the unit, the grade earned on the unit exam will be applied for all missing work.

Extra Help:
If you need any extra help with any topic or would like to tutor a peer who might be struggling with certain concepts, please communicate with Mrs. Graham BEFORE a unit test. Virtual tutoring will be conducted on **most Fridays during the class period.**

Cheating Policy:
Cheating of any kind will not be tolerated and consequences for such will result in referral to administration, contact with parent/guardian, and a possible zero '0' on the assignment, assessment, or project.

Interactive Tutorials :
Students will engage in virtual, interactive tutoring with the teacher during their allocated time. Students will be given an opportunity to retest on any assessment given once the tutorial session is completed and submitted on the day listed specifically for that tutorial. Student must check Google Classroom for the interactive tutorial activity and will have 5 minutes from the end of the interactive tutoring session to submit their "interactive activities" on Google Classroom to receive credit for that tutoring session in order to earn the opportunity to retest. Students **will not be allowed to retest** on a unit tests if they fail to attend the corresponding tutoring session.

Tentative dates for testing, interactive tutorials and retesting are listed below.

Milestone / Final TBD Diagnostic 8/21
Unit 1: Macromolecules & Enzymes 9/4
Tutorial 9/8; Retest 9/9
Macromolecules (Carbs, Lipids, Proteins, Nucleic Acids)
Enzymes

Unit 2: Cells & Membranes 9/18
Tutorial 9/28; Retest 9/29
Eukaryotic & Prokaryotic Cells
Organelles and Function
Plasma membrane
Molecular Transport

Unit 3: Cell Division 10/02
Tutorial 10/05; Retest 10/06
Cell cycle
Mitosis
Meiosis

Unit 4: Protein Synthesis 10/16
Tutorial 10/19; Retest 10/20
DNA/RNA Structure, DNA Replication, RNA Transcription, RNA Translation, Mutation

Unit 5: Mendelian Genetics, Biotechnology 10/30
Tutorial 11/02; Retest 11/04
Mendelian Laws, Monohybrid & Dihybrid Squares, Biotechnology

Unit 6: Photosynthesis and Cell Respiration 11/13
Tutorial 11/16; Retest 11/17
Photosynthesis & Cellular Respiration

Unit 7: Evolution 11/30
Tutorial 12/02; Retest 12/04
Earth's history
Biodiversity
Comparative Biology
Natural Selection

Unit 8: Ecology 12/11
Tutorial TBD; Retest TBD
Ecosystems
Flow of energy
Food web & Energy pyramid
Biochemical Cycles

Milestone / Final TBD