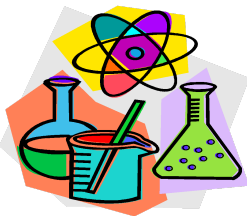


CLASS SYLLABUS



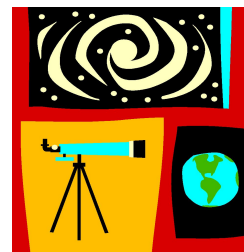
School Year: 2020-21

CLASS: Integrated Science 2

Teacher: Mrs. Tiller

Email: jaime.tiller@carter.kvschools.us

Phone: 606-474-6696 ext. 41000



Class Description:

This course was designed to prepare students with the skills, habits of mind and foundational core concepts for success in high school science courses and college. Science methods of inquiry, the mathematics used in science, as well as science-based analytical reading and writing will be taught and interwoven throughout the course. The students in this course will spend at least 25% of their time doing hands-on laboratory investigations. Our test scores have shown that these essential skills will also strengthen and prepare students for higher ACT scores.

As the name implies, the word integrated in the course title means that a combination of different sciences will be taught within a 2 semester school year. The science concepts selected will not only adhere to the state required NGSS standards, but also support and underpin the skills and concepts critical for success in college level science courses and/or a variety of careers.

I. Classroom Procedures and Expectations:

Virtual Class Expectations:

1. Students are expected to follow the acceptable use policy.
2. **Respectful.** Students are expected to stay focused on the lesson/topic; mute your microphone until you are called on to speak; listen to your teacher and classmates when they are speaking; speak clearly and use appropriate language; and use the chat box appropriately.
3. **Responsible.** Be on time for class meetings; charge your device or have it plugged in; find a quiet place to work without distractions; follow directions and complete the assignments to the best of your ability; actively participate in lessons and discussions; ask questions if you need help.
4. **Resourceful.** I am here to guide you but you have to learn to problem solve and initiate your learning.
5. **Reliable.** Be an active participant in your class.
6. **Ready.** Students are expected to listen carefully and follow directions when given.

In-person Class Expectations:

1. Students are expected to follow all school rules in class.
2. **Respectful.** Students are expected to be respectful of the teacher, students, school property, and others' property. Students are expected to keep hands, objects, and inappropriate comments to

themselves (no put-downs).

3. **Responsible.** Be responsible with your class work, assignments and study habits.
4. **Resourceful.** I am here to guide you but you have to learn to problem solve and initiate your learning.
5. **Reliable.** Be an active participant in your group.
6. **Ready.** Students are expected to be in assigned seats with appropriate materials ready when the bell rings. Students are expected to listen carefully and follow directions when given.
* **Cell phone/technology policy:** Students are not permitted to use cell phones or earbuds for personal use. Cell phones will only be allowed if they are part of the learning.

In-person Basic Procedures:

- A. Students will have assigned seats. Seating charts will change every 2-3 weeks and sometimes daily when required for certain activities and/or learning environment needs.
- B. Students are expected to be on time and prepared for learning at the bell. Two tardies will result in a tardy packet.
- C. Students are limited to four times out of class per semester

II. Grading System:

- A. The overall **grading scale** will be the same as in your ECHS school handbook. (90-100 = A; 80-89=B; 70-79=C; 60-69=D)
- B. **Grading:**
 - **Summative assessments (90%)** such as unit exams, quizzes, lab results, writing-to-learn assignments, and other content specific activities/projects are weighted and cumulatively become 90% of a student's overall grade in Integrated Science 2
 - **Formative assessments (0%)** such as daily note-taking and many other partner/team in-class work or activities will be considered "practice" for learning and will **not** be included in a student's "summative" grade. These grades are called formative grades and on occasion I will put them in Infinite Campus. These scores should show up in RED while summative grades will be in BLACK.
 - **End of Course Final (10%)** - There will be a cumulative final that will count as 10% of your grade.
- C. **ECHS Standards-Based Grading:** It is the expectation that students are to watch lessons, either live or recorded, complete all assignments and practice work, take weekly assessments, ask questions when needed, and submit work weekly. A breakdown of the grading system is listed above. Each assignment will have a due date. There will be no grade period on due dates. Assignments submitted late will lose points. After 7 days, late work will not be accepted. If you have extenuating circumstances you must contact me before the due date. While we are doing virtual learning, your lab grade may be a written reflection of a virtual lab. Exams are given at appropriate times during each semester.

III. Classroom Materials:

- A. Computer
- B. optional: Paper, Writing instrument, calculator

IV. Curriculum Timeline

Unit	Unit Dates	Assessment Dates
Foundations of Life 1 HS-LS1-6 HS-PS1-3 HS-ESS2-5	August 31st-Oct. 2 (5 Weeks)	Unit Exam 1-October 2
Foundations of Life 2 MS-LS1-2 HS-LS1-6 HS-LS1-3	October 5 - Oct 30 (4 weeks)	Unit Exam 2 - October 30
Bioenergetics HS-LS1-1 HS-LS1-5 HS-LS1-6 HS-LS1-7 HS-LS2-3 HS-LS2-4 HS-LS2-5	November 4 - December 11 (5 Weeks)	Unit Exam 3-December 11
Molecular Genetics HS-LS1-1 HS-LS1.A HS-LS3-1 HS-LS3.A	December 14 - January 29 (4 Weeks)	Unit Exam 4-Jan. 29
Inheritance HS-LS1-4 HS-LS3-1 HS-LS3-2 HS-LS3-3	February 1 - March 5 (5 Weeks)	Unit Exam 5-March 5
Evolution HS-LS4-1 HS-LS4-2 HS-LS4-3 HS-LS4-4 HS-LS4-5 HS-LS4-6	March 8-April 16 (5 Weeks)	Unit Exam 6-April 16
Ecology HS-LS2-1 HS-LS2-2 HS-LS2-4 HS-LS2-5 HS-LS2-6 HS-LS2-7 HS-LS2-8 HS-LS4-6	April 19-May 12 (4 Weeks)	Unit Exam7 - May 17

		End of Course Final Exam May 17

V. Biology Lab Safety Contract

Biology is a hands-on laboratory class. However, science activities may have potential hazards. We will use some equipment and chemicals that may be dangerous if not handled properly. Safety in the science classroom is an important part of the scientific process. The rules listed below must be followed at all times. Additional safety instructions will be given for each activity. No science student will be allowed to participate in science activities until this contract has been signed by both the student and a parent or guardian.

1. Conduct yourself in a responsible manner at all times in the lab. Horseplay, practical jokes, and pranks will not be tolerated.
2. Follow all written and verbal instructions carefully. Ask your teacher if you do not understand the instructions.
3. Do not touch any equipment, supplies, or other materials in the lab until instructed to do so.
4. Only perform experiments approved by your teacher.
5. Be prepared for your work in the lab. Read all procedures thoroughly before beginning the lab.
6. Never eat, drink, chew gum, or taste anything in the science room.
7. Keep hands away from face, eyes, and mouth while using lab materials. Wash your hands with soap and water when you are finished with the lab.
8. Follow your teacher's instructions for disposal of waste materials.
9. Clean all work areas and equipment. If you finish early, help clean up common areas. Nobody leaves the lab until the entire lab space is clean and all materials are accounted for.
10. Never remove chemicals, equipment or other supplies from the lab unless instructed to do so.
11. Consider all chemicals used in the lab to be dangerous. Do not touch, smell, or taste any chemicals unless specifically instructed to do so.
12. Treat all preserved specimens and dissecting supplies with care and respect.
 - a. Do not remove preserved specimens from the science room,
 - b. Use scalpels, scissors, and other sharp objects only as directed.
 - c. Never cut any material towards you- always cut away from your body.
 - d. Report any cut or scratch to the teacher immediately.
13. Report any accident, injury, or hazardous condition to the teacher immediately.
14. Do not handle broken glassware with your bare hands.
15. Always carry a microscope with both hands. Hold the arm with one hand and the base with the other hand.
16. Dress properly- long hair must be tied back, no dangling jewelry, no loose or baggy clothing. Wear aprons and goggles when instructed to do so.
17. Learn where the safety equipment is and how to use it. Know where the exits are located and what to do in case of an emergency or fire drill.
18. Be aware of what is going on in your experiment at all times. Do not wander around the room, distract other students, or interfere with the experiments of other students. Stay on task!
19. Examine glassware before each use. Never use chipped or cracked glassware.
20. Do not open storage cabinets or enter the storage room without permission from the teacher.

Failure to comply with lab safety rules will result in removal from the lab. If you are removed from a lab you will complete an alternate assignment for credit.

I, _____, have read and understand each of the safety rules. I agree to follow them to ensure not only my own safety but also the safety of my classmates. I understand that if I do not follow all the rules and safety precautions, that I will be removed from the lab. I have also read and understand the syllabus about the expectations and policies in this course.

Student Signature

Date

Period

