

Science 14

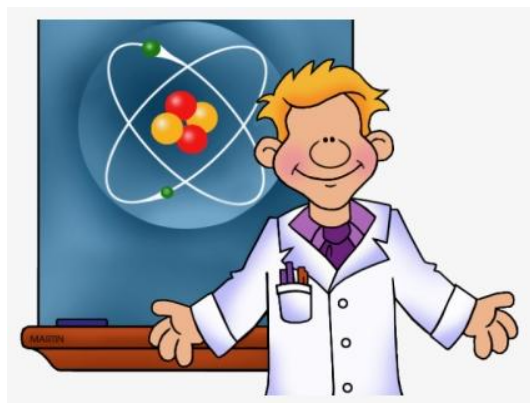
Miss. Taryn Banach
2021-2022 (Semester 2)

Contact Information:

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Google Classroom Code: dl7rkvq



Course Overview:

Diverse learning experiences within the Science 14 program provide students with opportunities to explore, analyze and appreciate the interrelationships among science, technology, society and the environment, and to develop understandings that will affect their personal lives, their careers and their futures.

Materials Required:

Science Connect 1 (textbook provided by school)

Binder, writing supplies & calculator

During labs proper clothing (long pants and closed toe shoes, long hair tied back) must be worn. Protective equipment such as goggles will be provided.

Scope and Sequence:

Unit A: Investigating Properties of Matter (~ 22 classes)

Chapter 1 - Understanding Matter

Chapter 2 - Pure Substances: Elements & Compounds

Chapter 3 - Mixtures and Their Uses

Chapter 4 - Solutions and the Environment

Unit B: Energy Transfer Technologies (~20 classes)

Chapter 5 - Heat and Heat Transfer

Chapter 6 - Controlling Heat Transfer

Chapter 7 - Simple Machines and Energy Transfer

Unit C: From Life to Lifestyles (~22 classes)

Chapter 8 - Structure and Function of Plant and Animal Cells

Chapter 9 - Life Functions Common to Living Things

Chapter 10 - Food for Life

Chapter 11 - Maintaining Homeostasis

Unit D: Matter and Energy in the Biosphere (~22 classes)

Chapter 12 - The Web of Life

Chapter 13 - Populations

Chapter 14 - Ecosystems and Biomes

Chapter 15 - Protecting the Environment

Final Exam Review (~5 classes)

Assessment:

The final course mark will be generated as follows:

| | |
|----------------------------|------|
| Assignments/Projects, Labs | 40% |
| Quizzes | 20% |
| Unit Tests | 30% |
| Final Exam | 10% |
| Total | 100% |

Teaching Methodologies:

There will be a variety of instructional strategies utilized in Science 14. These will include lectures, experiments, dissections, review games, student and/or teacher demonstration, student research, films and discussions.

Expectations of Students:

1. Students are expected to show up to class on time with all necessary materials.
2. Students are expected to respect the teacher, other students, and the classroom.
3. Students are expected to participate in all class activities.
4. Students are expected to follow the rules and procedures set out by the teacher.
5. Mandatory classes may be scheduled during PULSE times. All students are expected to attend mandatory classes.
6. If you are absent, you are responsible for catching up on whatever work you have missed due to absences. Check what was completed on Google Classroom or with another student in the class. Hand in your assignments on the day you return to school.
7. Any exams or quizzes missed due to an excused absence must be made up either during PULSE or at lunchtime the day of your return to school. Please make arrangements with the teacher.
8. Cell phones, iPods and other electronic devices may only be used with teacher permission. During exams all electronic devices will be placed on the desk at the front of the room and remain there until all students have completed the exam.

Plagiarism:

Cheating will not be tolerated! This could include, but not be limited to, the following:

- tendering another's work as your own
- downloading information from the Internet and not citing it
- cutting and pasting from documents not your own
- paraphrasing another's writing and not citing it
- submitting work that you have already received a grade for in another course

Controversial Topics:

Science 14 may cover some potentially controversial topics. All subject matter will be taught from a **scientific basis**, and any positions that are presented are not necessarily personal opinion, but rather those expressed by the scientific community. If you feel uncomfortable with any topics please come and talk to me.

Success Plan:

Science 14 covers a lot of concepts in a short amount of time. Regular attendance is key to your academic success. If you display consistent attendance, participate during class activities, and stay caught up on assignments you will be successful in Science 14. Extra help is available during lunch or after school; however, it is your responsibility to ask. Your success depends on YOU!!!

Keep track of your marks as they will be posted online on a regular basis. PowerSchool is used as a tool for teachers to communicate with students and parents about such things as attendance, grades, discipline, schedules, assignments, events, fees and graduation requirements.



Have a great semester! ☺