

# Science 24

Miss. Taryn Banach  
2021-2022 (Semester 1)

## Contact Information:

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Phone: 780-835-5421 (school)

Google Classroom Code: fyljy2s



## Course Overview:

Diverse learning experiences within the Science 24 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 2* (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: Matter and Chemical Change (~ 22 classes)**

Chapter 1 - Useful Chemistry

Chapter 2 - Common Reactions in Our Lives

Chapter 3 - Types of Chemical Reactions

Chapter 4 - Reactions and the Environment

### **Unit B: Energy Transformations (~21 classes)**

Chapter 5 - Energy Conversions

Chapter 6 - Electric Energy at Home

Chapter 7 - Energy for Life

Chapter 8 - Fossil Fuels

### **Unit C: Disease, Defence, and Human Health (~22 classes)**

Chapter 9 - Disease

Chapter 10 - Society's Response to Disease

Chapter 11 - Protecting Yourself From Disease

Chapter 12 - Genetics and Health

### **Unit D: Safety in Transportation (~21 classes)**

Chapter 13 - A Need For Safety

Chapter 14 - The Nature of Speed

Chapter 15 - The Physics of Collisions

Chapter 16 - The Technology of Safety

## **Final Exam Review (~5 classes)**

### **Assessment:**

The final course mark will be generated as follows:

Assignments, Projects, Labs	40%
Quizzes	15%
Unit Tests	25%
Final Exam	20%
Total	100%

### **Teaching Methodologies:**

There will be a variety of instructional strategies utilized in Science 24. 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

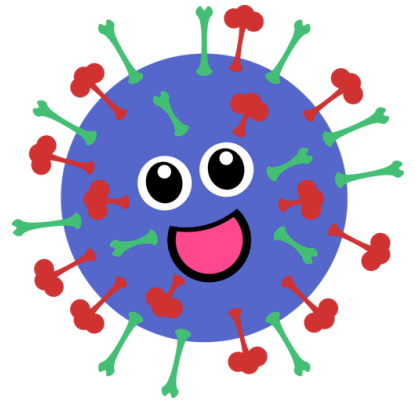
### **Controversial Topics:**

Science 24 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 24 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 24. 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 guardians about such things as attendance, grades, discipline, schedules, assignments, events, fees and graduation requirements.



Have a great semester! 😊