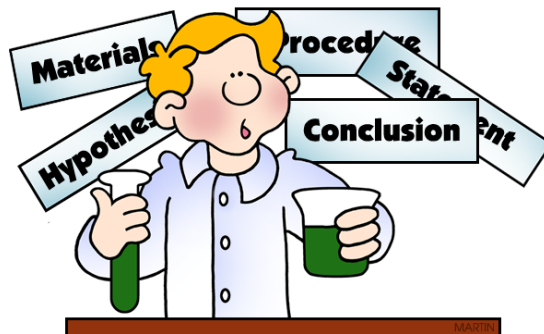


Science 30
Semester 1: September-January
Mrs. Tamara Szmata

Contact Information:

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Course Overview:

The secondary science program is guided by the vision that all students have the opportunity to develop scientific literacy. The goal of scientific literacy is to develop the science-related knowledge, skills and attitudes that students need to solve problems and make decisions, and at the same time help them become lifelong learners— maintaining their sense of wonder about the world around them. Diverse learning experiences within the Science 30 program provides 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:

Bissell, et al. Science 30. Alberta Education., 2007 (textbook)

Scientific calculator

Scope and Sequence:

Unit A: Living Systems Respond to Their Environment (~23 days)

Chapter 1. Circulation and Immunity

Chapter 2. Genetics

Unit B: Chemistry and the Environment (~23 days)

Chapter 1. Acids and Bases

Chapter 2. Organic Compounds

Unit C: Electromagnetic Energy (~22 days)

Chapter 1. Electric and Magnetic Fields

Chapter 2. The Electromagnetic Spectrum

Unit D: Energy and the Environment (~15 days)

Chapter 1. Dreams of Limitless Energy

Chapter 2. Dreams of a Sustainable Future

Assessment:

The final course mark will be generated as follows:

Unit Exams	70%
Quizzes	15%
Labs, Review Questions, Assignments, Projects	15%
Total	100%

****Note: The final mark for Science 30 will be based on 70% course mark and 30% diploma exam mark.**

Teaching Methodologies:

There will be a variety of instructional strategies utilized in Science 30. 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 will be scheduled during PULSE time. All students are expected to attend these mandatory sessions.
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 at lunchtime or afterschool the day of your return to school. Please book times 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 in the "Cell Phone" basket and remain there until all students have completed their 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
- submitting work that you have already received a grade for in another course

Controversial Topics:

Science 30 may cover some potentially controversial topics. Some of the topics that are covered in this course are:

- Genetics/Genetic modification/Genetic technologies
- Vaccines
- Environmental Issues and Management

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 30 covers a lot of concepts in a short amount of time. It is an academic course and will require you to put in time outside of class. Regular attendance is key to your academic success. If you participate during class activities, do your homework, and study for quizzes/exams you will be successful in Science 30. Extra help is available during PULSE or at lunch; however, it is your responsibility to ask. Your success depends on YOU!!!

Keep track of your marks as they will be posted online to PowerSchool on a regular basis. Our online marks system 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.

