

ST. FRANCIS XAVIER HIGH SCHOOL



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Science Department 2021-22

Science 30 - 5 CREDITS

Semester 2: February 1, 2022 – June 28, 2022

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Google Classroom Code Block 4: bb7mq2f

St. Francis Xavier High School acknowledges Treaty 6 territory—the ancestral and traditional territory of the Cree, Dene, Blackfoot, Saulteaux, Nakota Sioux, as well as the Métis. We acknowledge the many First Nations, Métis, and Inuit whose footsteps have marked these lands for generations. We are grateful for the traditional Knowledge Keepers and Elders who are still with us today and those who have gone before us. We recognize the land as an act of reconciliation and gratitude to those whose territory we reside on or are visiting.

GENERAL OUTCOMES/ COURSE OVERVIEW

The major science themes developed in Science 30 are the study of the cardiovascular system and genetics; effects of acid deposition and organic chemicals on the environment; electromagnetic energy and applications to astronomy; and global energy demand and sustainability. Students are expected to demonstrate skills in initiating, planning, collecting, recording, organizing, communicating, synthesizing, integrating and evaluating.

ASSESSMENT

A wide range of assessment information is used in the development of a student's final grade. At St. Francis Xavier High School, individualized assessments provide specific information regarding student progress and overall performance in class. Student assessment may vary from student to student to adapt for differences in student needs, learning styles, preferences, and paces. It should also be noted that not all assignments are used to determine the final grade, and that scale factors may have been used to determine the weight of individual assignments.



EDMONTON CATHOLIC SCHOOLS

Unit	Weighting
Unit A: <i>Living Systems Respond to Their Environment</i> <ul style="list-style-type: none"> - The human circulatory system and cardiovascular health - The human body's defense mechanisms defend against pathogens - Heredity and molecular genetics 	25%
Unit B: <i>Chemistry and the Environment</i> <ul style="list-style-type: none"> - Acids and Bases and their effects on the environment - The sources of organic compounds and their effects on the environment - The risks and benefits of using chemicals to meet human needs and the use of technology to reduce their ecological impact 	25%
Unit C: <i>Electromagnetic Energy</i> <ul style="list-style-type: none"> - The theory and technology used to produce, transmit and transform electrical energy - The properties of EMR and its applications in medical technology, communications and remote sensing technologies to study the universe 	25%
Unit D: <i>Energy and the Environment</i> <ul style="list-style-type: none"> - The need for balancing global energy demands and maintaining a viable biosphere - The sun as Earth's source of energy and the functioning of conventional and alternative sources of energy. 	25%

The school based mark is based on the following approximate weightings:

Coursework – ie. labs, quizzes, etc.	20%
Unit Exams	80%

The final school based mark will be calculated cumulatively and is worth 90% of your final course mark. The other 10% comes from the diploma exam.

Exam Dates: Diploma Exam: Tuesday, June 28, 2022

PLAGIARISM

We provide a Catholic education, where the Core Values of dignity, respect, fairness, personal and communal growth, loyalty, and honesty are the framework for all that we do. Within this Catholic education that St. Francis Xavier School provides, one of our main focuses is to encourage and facilitate the pursuit of knowledge and excellence in academics. To ensure that we attain this focus, all students at our school community are expected to meet the standards of individual integrity in the following ways:

Students practice intellectual honesty in the process of acquiring and extending knowledge by improving their own personal academic competence, critical thinking, and self-evaluation. 2. Students are therefore not expected to act in ways that result or could result in unearned academic benefit or advantage for themselves or others (cheating and collusion).

Therefore, students who **submit work not their own, take or copy answers from another student or source (cheating), provide answers to any assessment to another student (collusion), cheat during examinations, or use unauthorized means to obtain answers or complete work**, after investigation by the teacher supervisor, are at risk of the following:

First offense – May receive a zero for the assessment and a two-day suspension.

Second offense – May receive a zero for the assessment and a three-day suspension.



Third offense – May be removed from the class, further suspensions, or possible recommendation for expulsion. Conditions surrounding the investigation will be considered and each situation will be dealt with on an individual basis. Review of the incident will first be conducted by the teacher and will then potentially involve additional staff (department head), administration, parents and the student(s) involved.

SCHOOL POLICIES

St. Francis Xavier does not publish report cards. Parents and students are encouraged to keep up to date on Power School and contact their teacher if there are any issues.

At St. Francis Xavier, zeros may be administered for incomplete or absent work with the opportunity to rectify the mark with conversation with their teacher.

CELL PHONE POLICY

Mobile devices are not to be used by students during instructional time. Your phone must be “off and away”. First offense, the phone is forfeited to the teacher for the remainder of class time. Second offense, the phone is forfeited to the grade coordinator for the remainder of the school day. Third offense, the phone is forfeited to the grade coordinator until a parent can pick it up. The teacher/grade coordinator is not responsible for lost/stolen devices.

During assessments, students are not allowed to have mobile devices anywhere on their person. If brought to class, the student agrees that he/she must forfeit his/her device to a secured location. Again, the teacher is not responsible for lost/stolen devices.

CLASSROOM POLICY & MISSED ASSESSMENT POLICY

To be successful in this course, students need to be on time and attend all classes. Parents/guardians are expected to notify the school on or before the date of the late/absence. Consistent attendance has a significant impact on student progress due to the dynamic nature of classroom activities and teacher instruction. It is imperative to stay in communication with your teacher if you are away due to illness.

Expect to do homework on a daily basis. Homework includes: completing assignments and projects, reviewing the day’s material, studying for quizzes or tests, preparing and completing labs, and practicing science skills and concepts. All assessments need to be completed by their due dates.

SUPPLIES

It is recommended that you have the following supplies in class every day:

- Chromebook or laptop
- Head phones
- Notebook
- Textbook (digital or hard copy)

It is your responsibility to provide these supplies. You will not be permitted to leave the classroom to get these supplies during class time.

Good luck, work hard and have a great semester!

