

Science 10 Fall 2020 – Course Outline

Instructor: Mr. G. Francis

Room Number: 103

Email: gfrancis@gedu.sd73.bc.ca

Google Classroom code: rqfuoc6

Science 10 is the final junior science course before students have the opportunity to streamline their senior science choices into specific disciplines. It is an action packed course that examines themes centered in Biology, Chemistry, Physics, and Astronomy.

The Big Ideas covered in Science 10

Big Idea	Focus	Approximate Percentage of Mark
Biology	Genetics, adaptations and evolution. “Genes are the foundation for the diversity of living things”	25%
Chemistry	Chemical reactions. “Chemical processes require energy change as atoms are rearranged”	25%
Physics	Energy Transformations. “Energy is conserved and its transformation can affect living things and the environment”	25%
Astronomy	Origins of the universe. “The formation of the universe can be explained by the big bang theory”	25%

This weighting is subject to change depending on how much of the emphasis placed on specific areas of study. The goal is to have students develop curricular competencies as much as possible while performing tasks designed around the Project Based Learning model as it is presently regarded as the best practice for developing critical and innovative thinkers.

Curricular Competencies:

As we move through the Science 10 course, students will develop their ability to:

- Question and predict
- Plan and conduct experiments
- Process and analyze data and information
- Evaluate and modify experimental designs
- Apply and innovate using knowledge connected to the Science 10 curriculum
- Communicate ideas and understanding

To be successful in Science 10 it is essential that students attend class, demonstrate focus, and a willingness to engage in learning. Some concepts are trickier than others, but everything can be learned with effort. I will attempt to incorporate as much Project Based Learning into this course as possible as it is widely recognized as one of the best strategies to engage students in their learning while developing curricular competencies.

Assessment:

Formative assessment: will consist of assigned questions and quizzes. Formative assessment does not count towards the final mark

Summative assessment: will consist of unit tests, laboratory reports, and projects.

Effort Mark: An effort mark will be issued utilizing the Norkam CARES effort matrix

NorKam attributes: students are expected to demonstrate the attributes of Global Citizenship, adaptability, and inquiry. These attributes will be incorporated into the rubrics of student projects.

The attribute of adaptability is especially relevant as we engage in learning in a challenging time. In the event that a student will need to be away for a period of time, or other changes need to be made to how we are delivering instructions, please maintain consistent communication with your teacher.

I look forward to a wonderful semester of progression, innovation, higher order thinking, and learning. I am usually available in my classroom at lunch hour should you have any questions or require any additional support with learning.