

Course Summary

In Science 10 you will be introduced to the following concepts:

- Climate and Ecosystem Dynamics
- Chemical Reactions
- Force and Motion in Our World

Course Outcomes

Career Investigation
SCI10-CI1 Investigate career paths related to various branches and sub-branches of science. [DM]

Climate and Ecosystem Dynamics
SCI10-CD1 Assess the implications of human actions on the local and global climate and the sustainability of ecosystems. [CP, DM]
SCI10-CD2 Investigate factors that influence Earth's climate system, including the role of the natural greenhouse effect. [DM, SI]
SCI10-CD3 Examine biodiversity through the analysis of interactions among populations within communities. [DM, SI]
SCI10-CD4 Investigate the role of feedback mechanisms in biogeochemical cycles and in maintaining stability in ecosystems. [CP, DM, SI]

Chemical Reactions
SCI10-CR1 Explore the properties of chemical reactions, including the role of energy changes, and applications of acids and bases. [CP, SI]
SCI10-CR2 Name and write formulas for common ionic and molecular chemical compounds, including acids and bases. [SI]
SCI10-CR3 Represent chemical reactions and conservation of mass symbolically using models, word and skeleton equations and balanced chemical equations. [SI, DM]
SCI10-CR4 Investigate the rates of chemical reactions, including factors that affect the rate. [SI]

Force and Motion in Our World
SCI10-FM1 Explore the development of motion-related technologies and their impacts on self and society. [DM, TPS]
SCI10-FM2 Investigate and represent the motion of objects that travel at a constant speed in a straight line. [SI]
SCI10-FM3 Investigate and represent the motion of objects that undergo acceleration. [SI]
SCI10-FM4 Explore the relationship between force and motion for objects moving in one and two dimensions. [SI, TPS]

Assessment

Outcome Based Assessment will be used to determine whether a student is meeting the Outcomes of this course. Each assignment, lab, quiz or submitted assessment piece will be assigned to a specific Course Outcome. By submitting assignments, students will provide evidence that they are meeting the Course Outcomes.

To receive a Science 10 Course Credit, each student must provide evidence that they have met a majority of the Course Outcomes.

Students will be assigned a mark or grade based on Outcome Based Assessment. Each Course Outcome will be assigned a weight pertaining to the final mark. This course will not have a Final Exam. Rather, during the final weeks of the semester, students will be able to design a project to submit which will allow that student to meet, or raise the mark associated with, one or more of the course outcomes.

Due Dates

Due dates are assigned to effectively assess whether students are meeting the Outcomes of Science 10. If you cannot submit an assignment at the due date, please see me and we will discuss an alternate date. If an assignment is not submitted before the class set is marked and returned, we are not able to assess if you have met the outcomes associated with that assignment.

Non-Academic Considerations

1. You can use my blog to keep up to date with the Science 10 schedule of activities. <http://lewchuks.blogspot.com/>
2. You are expected to attend class regularly. This involves being on time for all classes. If you cannot attend class, please use my blog to remain current with the coursework.
3. Cell phones are not allowed during instructional time.
4. You are expected to behave in a mature and respectful manner in and out of class. That means demonstrating respect for your classmates and the teacher as well as property (desks, equipment, etc). If you damage any classroom equipment, please tell me so I may repair or replace the equipment.

I want everyone to be successful in this class. Therefore, if you feel that you need extra help, please ask me. I will find time throughout the day to assist you when necessary.

Mr. S. Lewchuk

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