

Science for Citizens 11: Course Outline

Course: Science for Citizens 11

Course Length: 10 months

Teacher: Elixia Neumann

(approx. 120 hours)

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Course Curriculum

The curriculum for this course is built around the following Big Ideas:

- Scientific processes and knowledge inform our decisions and impact our daily lives.
- Scientific knowledge can be used to develop procedures, techniques, and technologies that have implications for places of employment.
- Scientific understanding enables humans to respond and adapt to changes locally and globally.

Students are expected to know the following:

- evidence-based decision making through science
- personal and public health practices, including First Peoples traditional health and healing practices
- impact of technologies
- personal safety and awareness
- workplace safety
- certifications
- practical applications of science in the workplace
- impacts of technology in the workplace
- applications of materials science
- beneficial scientific innovations
- natural hazards and responses
- human impact on Earth's systems:
 - natural resources
 - effects of climate change
- actions and decisions affecting the local and global environment, including those of First Peoples.

Course Layout

This course is broken down as follows:

Unit	Topic
Preliminary Assignments	Course Outline About Me Course Progress and Timeline
1	Health and Nutrition
2	Science of Maintaining a Home
3	Science at Work
4	Weather and Climate
5	Sustainability
6	Forensic Science
Course Completion	Core Competency Reflection

Assessment

Learning Guides and Inquiry Projects will feature a rubric which will determine the resulting grade for the assignment. Here is an overview of the proficiency grading:

Category	Percentage
Inquiry Projects	50%
Unit Tests	50%

Learning Guides

You are encouraged to complete the Learning Guide as you work through the lessons. There is a provided answer key for you to check your learning as you go. A strong student will examine their mistakes and try to fix them to improve their understanding.

Be sure to keep your work neat and organized as you will be studying from the Learning Guide for the Unit Test. Communicate your ideas as well as you can and try not to skip any questions. If you need help with a question, please email your teacher.

Inquiry Projects

Inquiry projects are designed for you to apply what learned to real life. Students are expected to cite any additional research conducted during these projects.

To finalize your registration in the course, you need to complete the Unit 1 Inquiry Project within 30 days of your registration. You may be removed from the course if this is not completed in time.

Unit Test Supervision

There is a unit test at the end of each unit. There is a total of six unit tests.

Your parent or guardian must:

- ensure the student has submitted the inquiry projects
- email the teacher at Elixa.Neumann@burnabyschools.ca for the passwords
- supervise the students test-taking to ensure no additional notes or resources are used while taking the test

Students will only have one attempt at the unit test unless you receive a score of 85% or less. If this is the case, and students wish to improve their grade, students will be asked to submit their completed and self-assessed learning guide to the Unit called "Tests: Rewind and Rise" before a second attempt will be made available.

Resources

There are NO textbooks required for this course. You do need a basic scientific calculator. There is a course Data Booklet under the Course Overview.

Plagiarism

Plagiarism is unacceptable under any circumstance. You are expected to create authentic work which demonstrates your own understanding. If you are caught cheating, plagiarizing, or submitting AI-generated responses within this course, you may be removed from the course.

Course Activity

Students must be working to complete learning engagements on a regular basis. Students who are inactive after two weeks will receive an email to their Brightspace email program providing a warning of inactivity. Students who are inactive after 1 month may be withdrawn from the course. If a student is planning to be inactive due to personal reasons, they need to contact their teacher to inform them of the period of inactivity.

Students should aim to complete one unit every two months to finish the course within a 10-month period (excluding July and August).

If you are inactive for one term, and have not communicated with your teacher, you will be unenrolled automatically from the course.

Contacting your Teacher

The best way to communicate with your teacher is through the Brightspace Email program. To access the email program, click on the small envelope at the top right-hand corner of your screen, then click Email. This will direct you to the Brightspace Email program.

Students should be checking their Brightspace email program at least once a week.

Parents and Guardians can email your teacher at Elixa.Neumann@burnabyschools.ca

Keys to Success

1. Actively work through each lesson: try examples and reflect on the materials.
2. Use the Learning Guide as your tool for documenting your understanding. Lay it out neatly and well organized.
3. Review feedback from your teacher before writing Unit Tests.
4. Use the message system for regular communication with your instructor.