

Welcome to Science for Citizens 11!

This course will allow you to explore and better understand the world of science. You will explore interactions between science, technology and society. You will also explore the impact of these interactions on both the individual and society at large. Throughout this course, you will continue to strengthen Core Competencies; build new Curricular Competencies; and explore interesting course content which relates to three Big Ideas as set by the BC Curriculum [<https://curriculum.gov.bc.ca/curriculum/science/11/science-for-citizens>]. The three Big Ideas are:

- **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.

Assessment

Throughout this course you will complete a variety of activities, each activity will include instructions and expectations.

- **Learning Guides:** For each unit, you will complete a learning guide which must be submitted before writing the unit test. All submissions **MUST** be very neat and well organized. If you can't figure out a question, you should be researching it, then asking for help. Show **ALL** work as is explained in the lessons.
- **Projects:** For each unit, you will also complete a project before writing the unit test. Projects allow you to make some choices on how you wish to enhance your understanding. As you work through units look for projects that will enhance your understanding in areas of interest and/or weakness.
- **Tests** are "closed book" and require supervision

How To Be Successful

1. Actively work through each lesson, trying examples and reflecting on material.
2. Use the Learning Guide as your tool for documenting your understanding. Lay it out neatly and in a well organized manner.
3. Make sure you understand any test question you get wrong. If you can't figure it out - **ASK!**
4. One-on-One Help is available! If you need assistance, please don't hesitate to contact me to ask a question or to set up a one-on-one appointment. We can do this in person or we can meet online using Zoom. Remember, I am your teacher and I'm here to help.

Substantive Activity (Health and Nutrition)

In order to be officially activated in this course you must first complete a substantive activity. For this activity you will complete the learning guide and project for unit 1: "Health and Nutrition". In this unit, you will explore how your health is affected by what you eat; learn to make more informed choices with regard to diet; better understand allergies; and weigh the health risks of performance enhancing substances and supplements. This substantive activity covers a variety of curriculum outcomes such as:

Big Ideas

- **Scientific processes and knowledge** inform our decisions and impact our daily lives.

Content

- **evidence-based decision making** through science
- **personal and public health practices**, including First Peoples traditional health and healing practices
- impact of **technologies**

Curricular Competencies

- Demonstrate a sustained intellectual curiosity about a scientific topic or problem of personal, local, or global interest
- Apply First Peoples perspectives and knowledge, other ways of knowing, and local knowledge as sources of information
- Use knowledge of scientific concepts to draw conclusions that are consistent with evidence
- Exercise a healthy, informed skepticism and use scientific knowledge and findings to form their own investigations to evaluate claims in primary and secondary sources
- Consider social, ethical, and environmental implications of the findings from their own and others' investigations

Resources

- Western Canada Learning Network "Science for Citizens 11"
- Online resources

Course Evaluation

Final Grade Course Calculator

Learning Guides (Including 5% substantive activity) 30%	X 0.30 =
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Projects (Including 6.67% substantive activity) 40%	X 0.40 =
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Tests 30%	X 0.40 =
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Final Grade	<input type="text"/>
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Course Organization

The course content is divided into 6 Units as shown below with suggested times. Note that once the substantive activity is complete, the time allotted for the remainder of the course is 16 weeks.

Unit	Suggested time (1 week = 5 hours)	Assessments	Weight	Mark
1. Health and Nutrition	3 weeks	Learning Guide (Substantive Activity)	5%	
		Project (Substantive Activity)	6.67%	
		Test	5%	
2. Science at Home	3 weeks	Learning Guide	5%	
		Project	6.67%	
		Test	5%	
3. Science at Work	3 weeks	Learning Guide	5%	
		Project	6.67%	
		Test	5%	
4. Weather and Climate	3 weeks	Learning Guide	5%	
		Project	6.67%	
		Test	5%	
5. Sustainability	3 weeks	Learning Guide	5%	
		Project	6.67%	
		Test	5%	
6. Forensic Science	3 weeks	Learning Guide	5%	
		Project	6.67%	
		Test	5%	
		Final Grade	100%	