

COURSE: Science 9 (SC09)

INSTRUCTOR

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RECOMMENDED PRE-REQUISITES

n/a

CREDITS

n/a

OVERVIEW

The Big Ideas, Content, and Curricular Competencies for this course can be found here: [Science 9](#)

Big Ideas

[Cells are derived from cells.](#)

[The electron arrangement of atoms impacts their chemical nature.](#)

[Electric current is the flow of electric charge.](#)

[The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, as matter cycles and energy flows through them](#)

Science and scientific literacy play a key role in educating citizens of today for the world of tomorrow. Critical to succeeding in this endeavour are the core competencies that provide students with the ability to think critically, solve problems, and make ethical decisions; to communicate their questions, express opinions, and challenge ideas in a scientifically literate way; and to exercise an awareness of their role as ecologically literate citizens, engaged and competent in meeting the responsibilities of caring for living things and the planet. First Peoples knowledge and perspectives and other traditional ecological knowledge are embedded throughout the Science curriculum. This course explores the Big Ideas mentioned below as well as the curricular competencies and content found in the [Learning Standards](#) set out by the BC Ministry of Education.

The course is broken down as follows:

- **Unit 1: Biology** – Reproduction, Asexual Reproduction vs Sexual Reproduction, Adaptability of Organisms.
- **Unit 2: Chemistry** – The Periodic Table, Metals/Nonmetals/Metalloids, Chemical Families, Bohr Model Revisited, Chemical Bonding.
- **Unit 3: Physics** - Electrostatics, Circuits, Circuit Protection, Series & Parallel Circuits, Kirchoff's Laws.
- **Unit 4: Earth Science** – Solar Radiation, Ecosystems, Cycles, Sustainability.

Before you write a unit exam, you must submit related Learning Guides and Projects.

ASSESSMENT

Students will have the opportunity to demonstrate their learning through a variety of means such as interviews, presentations, tests, quizzes, reflections, learning guides, and written assignments. Student growth and progress will be shared and communicated using the Provincial Proficiency Scale.

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The Provincial Proficiency Scale	EMERGING	DEVELOPING	PROFICIENT	EXTENDING
	The student demonstrates an initial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a partial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a complete understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a sophisticated understanding of the concepts and competencies relevant to the expected learning.

REGISTRATION

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