

COURSE: Science 8 (SC08)

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 8](#)

Big Ideas

[Life processes are performed at the cellular level](#)

[The behaviour of matter can be explained by the kinetic molecular theory and atomic theory.](#)

[Energy can be transferred as both a particle and a wave.](#)

[The theory of plate tectonics is the unifying theory that explains Earth's geological processes.](#)

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** – Characteristics of Life, Cell Theory, Photosynthesis and Cellular Respiration, and Micro-organisms.
- **Unit 2: Chemistry** – Kinetic Molecular Theory, Atomic Theory and Models.
- **Unit 3: Physics** – Electromagnetic Radiation, and Light.
- **Unit 4: Earth Science** – Plate Tectonics, and Layers of the Earth.

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

Please note – vLearn is a District Online School and can only serve students in the SD22 Catchment Area. Grade 8/9 students need approval from their home school administrator to take courses with vLearn. Please use your SD22 email address to register (000000@sd22.bc.ca)



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