



SCIENCE 9 COURSE OUTLINE (2023-24)

Teacher: Mr. K. Visscher

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Room: C103 MS Teams Code: 2ey2wj7

Course Description

Welcome to Science 9! It is my goal to set you up for success in understanding the learning standards for this course.

Science is the study of the natural world, and it is also a process in asking questions, making observations, and seeking understanding. Critical to succeeding in this endeavour are the core competencies that provide you with the ability to think critically, solve problems, and make ethical decisions; communicate your questions, express opinions, and challenge ideas in a scientifically literate way; and exercise awareness of your role as ecologically responsible citizens, engaged and competent in meeting the responsibilities of caring for living things and the planet.

Features of the Science 9 curriculum include:

- A focus on inquiry and conceptual learning, with opportunities to ask questions, consider a range of views, recognize their beliefs and opinions, work collaboratively, and ultimately make informed conclusions that lead to personally and socially responsible choices.
- The story of science in the curriculum takes you from observing your immediate environment to engaging in actions and decision making on a global scale as scientifically educated citizens.
- First Peoples knowledge and perspectives and other traditional ecological knowledge are embedded throughout the Science curriculum.

(For more information on the course, the Big Ideas, Curricular Competencies, and Core Competencies, please visit [Building Student Success - B.C. Curriculum \(gov.bc.ca\)](#) for more information.)

Communication:

- Ongoing course communication will be made through MS Teams; join by entering the team code above.
- Communication with the classroom teacher can be made through MS Teams or email.
- Assignments, handouts, and notes will be posted regularly on MS Teams.
- At mid-course, there will be an Interim Report.
- There will be a formal final report at the end of the course.

Content: *Students are expected to know the following:*

Biology

- ✓ Asexual and sexual reproduction
- ✓ Mitosis and Meiosis

Chemistry

- ✓ Elements and The Periodic Table
- ✓ Compounds and Chemical bonding

Physics

- ✓ Circuits
- ✓ Voltage, Current and Resistance

Earth Science

- ✓ Solar radiation and cycling of matter and energy systems.
- ✓ Matter cycles in the ecosystems

Textbook: BC Science 9 Connections, McGraw-Hill (2016)

Assessment:

Student work will be evaluated in the following way:

- Assessment *for* Learning (Assignments, Quizzes and Projects) = 50%
- Assessment *of* Learning (Unit Tests and Final Assessment) = 50%

Not Yet Meeting Min Requirements	Emerging			Developing			Proficient			Extending				
Student is <i>not meeting</i> the minimum requirements	The student demonstrates an <i>initial</i> understanding of the concepts and competencies			The student demonstrates a <i>partial</i> understanding of the concepts and competencies.			The student demonstrates a <i>complete</i> understanding of the concepts and competencies.			The student demonstrates an <i>above and beyond</i> understanding of the concepts and competencies.				
	-		+	-		+	-		+	-		+		
I/F	C-	C-	C	C	C+	C+	B	B	B	A	A	A		
15	30	40	50	55	60	63	67	70	73	78	82	85	90	100
1	2	2.5	3	3.25	3.5	3.75	4	4.25	4.5	4.75	5	5.5	5.75	6

TEACHER EXPECTATIONS

BE RESPECTFUL:

- Towards your classmates, teacher, and classroom guests. Do not talk or interrupt when the teacher or your classmates are speaking.
- Respect the classroom space by not damaging it and keeping it clean.
- Students will respect the bathroom breaks set by the teacher.

BE RESPONSIBLE:

- Take responsibility for your own learning, completing homework and participating in class in a positive way.
- Be responsible with using technology in the classroom. It should not interfere with learning and only be used with teacher permission.
- Attend class and be on time for class.
- Plagiarism and cheating will not be tolerated and will come with consequences.

BE SAFE:

- Ensure the learning space is safe for all.
- Inappropriate language, gestures, or messages towards other students and teachers will not be tolerated.

STUDENTS ARE RESPONSIBLE FOR THE FOLLOWING SUPPLIES:

- Binder with lined paper
- Pencils/eraser 2 pens
- Metric ruler
- Scientific calculator