

2020-2021 SCIENCE 9 COURSE OUTLINE

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Course Description and Philosophy

Science 9 contributes to the overall goal of education in five ways:

1. Encourage students at all grade levels to develop a critical sense of wonder and curiosity about scientific and technological endeavors.
2. Enable students to use science and technology to acquire new knowledge and solve problems, so that they may improve the quality of their own lives and the lives of others.
3. Prepare students to critically address science-related societal, economic, ethical and environmental issues.
4. Provide students with a foundation in science that creates opportunities for them to pursue progressively higher levels of study, prepares them for science-related occupations, and engages them in science-related hobbies and appropriate to their interests and abilities.
5. Enable students, of varying aptitudes and interests, to develop knowledge of the wide spectrum of careers related to science, technology and the environment.

Science 9 is designed to attain the above goals. The course contains five units all weighted equally involving chemical science, earth science and physical science. Emphasis is placed on three areas: nature of science, science and technology, and science, technology and society.

Unit
Biological Diversity
Matter and Chemical Change
Environmental Chemistry
Electrical Principles and Technologies
Space Exploration

Evaluation

Course assessment is subject to change in response to COVID-19

Student report card marks are determined on the basis of labs and unit exams, and a final exam. Formative assessment in the forms of assignments, quizzes, section tests etc. are communicated with parents via PowerSchool or email. A general mark breakdown follows:

Term Work:		
	Quizzes	20%
	Labs/Skills/Classwork	20%
	Unit Exams	50%
	PAT	10%

Course Materials/Textbook

Text: Science Connect 1., McGraw-Hill Ryerson

It is expected that you bring your textbook and notes along with the following to every class: calculator, 3-ring binder, loose-leaf paper, pen, pencil, eraser.

Classroom materials will not be provided or shared between others.

Googles will be available at school and sterilized after every use. However, it is strongly recommended that students provide their own set of goggles for use within all science courses. Goggles must be splash resistant. Here are some links to suitable options:

- [Lowes](#)
- [Amazon](#)
- [Marks](#)

Science Department Expectations

Please refer to the student handbook for all school policies. Additionally, these are expectations specific to the science department:

Late Procedure	It is reasonable to expect each student to be punctual for each class period. Repeated lateness is disrespectful and discourteous and, if not corrected tends to become commonplace. Corrective action may include detention time, parent intervention or in chronic situations referral to administration.
Missed Assessments	When a student is absent it is their responsibility to contact the teacher about missed work and to determine a mutually agreeable time for missed assessments to be completed. If no attempt is made to contact the teacher within one day of the student's return, or the work is not completed within agreeable time, a zero will be given.
Calculator Policy	It is the student's responsibility to have an appropriate calculator for tests, quizzes, and assignments. <ul style="list-style-type: none">• Calculators may be used for exams/quizzes, but may not be shared.• Calculators will not be lent out to students by their teacher.• No information, text, or formulas may be stored in electronic form.• Calculators will be cleared before quizzes, exams, and final exams.
Appeals	Students and parents may direct, in writing, any appeal of the final grade to the school Principal (see page 19 of the student handbook).