#### Course Profile (2017-2018)

### **Grade 9 SCIENCE Academic (SNC1D1)**

### **Course Description:**

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and Credit Value: to relate science to technology, society, and the environment. Throughout Pre-requisite: the course, students will develop their skills in the processes of scientific Department: investigation. Students will acquire an understanding of scientific theories and conduct investigations related to sustainable ecosystems; atomic and molecular structures and the properties of elements and compounds; the study of the universe and its properties and components; and the principles of electricity.

Level: Academic 1.00 None SCIENCE

Course Fees:

In the event of possible field trip to the zoo and Royal Ontario Museum. Approximate Cost: \$10.00

#### **Textbooks & Resources:**

- · Growing Success: Assessment, Evaluation and Reporting in Ontario Schools, First Edition, First Edition, Covering Grades 1 to 12, 2010
- · The Ontario Curriculum, Grades 9 and 10: Science, Revised 2008
- \* Investigating Science 9, Sandner, L., Ellis, C., Lacy, D., Mace, H., Nowikow, I., Webb, P., Wevers, O., Wohl, S., published by Pearson, 2009

Course Evaluation: Student Evaluation consists of	three components			
1)Learning Skills & Work Habits:	The skills and habits consist of:			
Students are evaluated on 6 Learning Skills & Work	· Kesponsipility		Skills and work habits are not included in the student's final mark unless specified in the curriculum expectations.	
Habits and are evaluated on a scale of Excellent (E),	· Organization			
Good (G), Satisfactory (S) & Needs Improvement (N) and reported on the report card.				
	· Collaboration			
	· Initiative			
	· Self-Regulation			
2)Term Mark (Assessment of Learning):	The term evaluation consists of:			
It is the student's responsibility to submit evidence of the term's learning in a complete and timely manner.	Knowledge	25%	70%	
	Inquiry	20%		
Student performance standards for knowledge and skills are described in the curriculum Achievement Chart. The curriculum expectations in science are grouped in <b>three categories</b> as follows:	Communication	15%		
	Application	10%		
<ol> <li>Understanding Basic Concepts</li> <li>Developing Skills of Investigation and Communication</li> <li>Relating Science to Technology, Society, and the Environment</li> </ol>				
Based on the type of evaluation, your mark will be calculated as follows:				
3) Final Evaluation (Assessment of Learning):	The final evaluation consists of:			
The <b>final written exam</b> will be administered during the school's final exam schedule. The final evaluation accounts for 30% of the final mark.			30%	
Final Mark = 70% Term Mark + 30% Final Evaluat	ions			
For a detailed description on Course Evaluation, see "He	ow Did I Get That Mark!'	" at www.satec	e.on.ca	

Please retain this page in the front of your notebook for future reference.





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Course Conduct Policies: See Student Agenda.

Unit	Overall Expectations	Approximate Length	Major Unit Evaluation
Biology:	B1. assess the impact of human activities on the sustainability of terrestrial and/or	4 weeks	Unit Test
ustainable	aquatic ecosystems, and evaluate the effectiveness of courses of action intended to		
cosystems	remedy or mitigate negative impacts;		
ecos B3. c in te of te	B2. investigate factors related to human activity that affect terrestrial and aquatic		
	ecosystems, and explain how they affect the sustainability of these ecosystems;		
	B3. demonstrate an understanding of the dynamic nature of ecosystems, particularly		
	in terms of ecological balance and the impact of human activity on the sustainability		
	of terrestrial and aquatic ecosystems.		
hemistry:	C1. assess social, environmental, and economic impacts of the use of common	5 weeks	Unit Test
toms Elements	elements and compounds, with reference to their physical and chemical properties;		
& Compounds	C2. investigate, through inquiry, the physical and chemical properties of common		
	elements and compounds;		
	C3. demonstrate an understanding of the properties of common elements and		
	compounds, and of the organization of elements in the periodic table.		
arth & Space	D1. assess some of the costs, hazards, and benefits of space exploration and the	3 weeks	Unit Test
cience: The	contributions of Canadians to space research and technology;		
tudy of the	D2. investigate the characteristics and properties of a variety of celestial objects		
universe	visible from Earth in the night sky;		
	D3. demonstrate an understanding of the major scientific theories about the structure, formation, and evolution of the universe and its components and of the		
	evidence that supports these theories.		
	E1. assess some of the costs and benefits associated with the production of electrical	41	Unit Test
·		4 weeks	Unit Test
	energy from renewable and non-renewable sources, and analyse how electrical		
	efficiencies and savings can be achieved, through both the design of technological		
	devices and practices in the home; E2. investigate, through inquiry, various aspects of electricity, including the		
	properties of static and		
	current electricity, and the quantitative relationships between potential difference,		
	current, and resistance in electrical circuits;		
	E3. demonstrate an understanding of the principles of static and current electricity.		
Skills & Careers		Embedded within	
		units.	
	analysing and interpreting, and communicating);	units.	
	A2. identify and describe a variety of careers related to the fields of science under		
	study, and identify scientists, including Canadians, who have made contributions to		
	those fields.		
lote:	All of the above units will also include quizzes, labs, and assignments.		

## Grade 9 SCIENCE (Academic) SNC1D1

#### General Information:

#### 1 – As per SATEC school policy students are expected to come to class:

- a) in uniform and,
- b) with cell phones, mp3 players etc... unseen and not in use during class time.

#### 2- To be successful in Science, students are expected to:

- a) come to class prepared with pen/pencil, paper binder and resources for your particular Science course,
- b) demonstrate academic honesty with their own work and when working with others,
- c) complete assignments in a timely manner and,
- d) follow necessary safety rules and procedures of a Science Lab.

#### 3- To seek extra help:

- a) speak to your Science Teacher and schedule a time to meet,
- b) use the school's homework club to access peer tutors and/or,
- c) speak to your guidance counsellor to arrange for a tutor.

## Science Department deadlines and plagiarism policy.

Each assignment will have a due date. Handing in an assignment after the due date may result in a deduction of marks at the discretion of the teacher.

Students must be in class on dates of any major assessments. IF you miss a major assessment (i.e. unit test, exam, presentation) you must give your teacher a note **written and signed by your doctor or parent** stating the health reasons that kept you from class. Without a doctor's note, you will receive a mark of **zero** for that missed major assessment.

-If you know ahead of time that you will have an appointment, field trip, game, etc at the same time as the major assessment, you must either arrange with your teacher to complete the assessment before the scheduled date, or cancel your other plans so you can attend the evaluation.

Plagiarism includes: copying another student's work, buying essays, copy/paste web info and call it your own work, using information from print or internet media without identifying the source. To avoid plagiarism:

Do not cheat; Do not copy. Keep your eyes on your own paper during tests and exams. Do not steal intellectual property. Reference information properly (MLA)

We only need to <u>suspect</u> cheating to penalize you. There will be no warnings, only marks of <u>zero</u>.