

## Grade 10 Academic Science (Extended) SNC2D3

<p><b>Course Description:</b></p> <p>This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to relate science to technology, society, and the environment. Throughout the course, students will develop their skills in the processes of scientific 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.</p>	<p><b>Level:</b> Academic</p> <p><b>Credit Value:</b> 1.0</p> <p><b>Pre-requisite:</b> SNC1D3</p> <p><b>Department:</b> Science</p> <hr/> <p><b>Course Fees:</b> None</p>
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<p><b>Textbooks &amp; Resources:</b></p> <ul style="list-style-type: none"> <li>• Growing Success: Assessment, Evaluation and Reporting in Ontario Schools</li> <li>• The Ontario Curriculum Grades 9 and 10 Science (Revised 2008)</li> <li>• Pearson Investigating Science 10</li> </ul>
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<p><b>Course Evaluation:</b> Student Evaluation consists of three components...</p>					
<p><b>1) Learning Skills &amp; Work Habits:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> <p>Students are evaluated on 6 Learning Skills &amp; Work Habits. They are:</p> <ul style="list-style-type: none"> <li>• Responsibility</li> <li>• Organization</li> <li>• Independent Work</li> </ul> </td> <td style="width: 50%; border: none; vertical-align: top;"> <ul style="list-style-type: none"> <li>• Collaboration</li> <li>• Initiative</li> <li>• Self-Regulation</li> </ul> <p>These six attributes are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) &amp; Needs Improvement (N) and reported on the report card. They <b>are not</b> included in the course mark, unless specified in the curriculum expectations</p> </td> </tr> </table>		<p>Students are evaluated on 6 Learning Skills &amp; Work Habits. They are:</p> <ul style="list-style-type: none"> <li>• Responsibility</li> <li>• Organization</li> <li>• Independent Work</li> </ul>	<ul style="list-style-type: none"> <li>• Collaboration</li> <li>• Initiative</li> <li>• Self-Regulation</li> </ul> <p>These six attributes are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) &amp; Needs Improvement (N) and reported on the report card. They <b>are not</b> included in the course mark, unless specified in the curriculum expectations</p>		
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<p><b>Final Mark = 70% Term Mark + 30% Final Evaluation</b></p>					
<p>For a detailed description on Course Evaluation, see "How Did I Get That Mark!" at <a href="http://www.satec.on.ca">www.satec.on.ca</a></p>					

<p><b>Course Conduct Policies:</b> See Student Agenda.</p>
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**Please retain this page in the front of your notebook for future reference.**

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### Course Outline:

Unit	Description	Approximate Length	Major Unit Evaluation
Biology	Plants and animals, including humans, are made of specialized cells, tissues, and organs that are organized into systems. Developments in medicine and medical technology can have social and ethical implications.	4 weeks	Biology Project and Environmental Study Project
Chemistry	Chemicals react with each other in predictable ways. Chemical reactions may have a negative impact on the environment, but they can also be used to address environmental challenges.	5 weeks	Chemistry Project
Earth and Space Science	Earth's climate is dynamic and is the result of interacting systems and processes. Global climate change is influenced by both natural and human factors. Climate change affects living things and natural systems in a variety of ways. People have the responsibility to assess their impact on climate change and to identify effective courses of action to reduce this impact.	3 weeks	Climate Change Project
Physics	Light has characteristics and properties that can be manipulated with mirrors and lenses for a range of uses. Society has benefited from the development of a range of optical devices and technologies.	5 weeks	Light Project
Skills	Scientific investigation skills and career exploration.	Integrated into each unit.	
Note:	At least 3 of the above 4 projects plus additional environmental study will be assigned. All of the above units will also include tests, quizzes, labs, and assignments.		
<b>Note: The order of the units of study may change due to student needs and resources available during the course.</b>			

### General Information:

Field Trips: None at the present time.

How to Seek Extra Help: 1) Speak to your subject teacher and book a time to meet.  
2) Speak to a Peer Helper and book a time to meet.  
3) Speak to a Guidance Councillor to arrange for a tutor.