



SNC 1D1/3
SCIENCE
Grade 9 Academic
2016-2017

General Course Information

Teacher: _____ (Science office, 416-395-3290 ext 20095)
Department: Science
Assistant Curriculum Leader: S. Evans, K. Fischer
Extra Help: Available upon request
Textbook and Replacement Cost: Nelson Science Perspectives 9 Cost: \$90
Material Required: Binder, calculator, textbook, ruler

Course Description

This course enables students to understand basic concepts in biology, chemistry, earth and space science, and physics; to develop skills in the processes of scientific inquiry; and to relate science to technology, society, and the environment. Students will learn scientific theories and conduct investigations related to sustainable ecosystems; atomic and molecular structures and the properties of elements and compounds; the universe and space exploration; and the principles of electricity.

A list of the course expectations can be found at: <http://www.edu.gov.on.ca/eng/curriculum/secondary/science.html>

Course Information

Unit Titles

| Strands of Study (Units) | Number of Lessons |
|--|-------------------|
| Scientific Investigation Skills and Career Exploration | 10 |
| Biology: Sustainable Ecosystems | 18 |
| Physics: The Characteristics of Electricity | 19 |
| Chemistry: Atoms, Elements, and Compounds | 17 |
| Earth and Space Science: The Study of the Universe | 17 |

*Note: The order and duration of the units may be subject to change.

Teaching Strategies

You will have opportunities to learn and be assessed (formative assessment) before evaluations. Evaluation strategies which may be used (but are not limited to) include: quizzes, tests, problem-sets, laboratory activities, hands-on activities, independent study, problem-based learning, role-plays, and simulations.

Assessment and Evaluation:

To promote student success, ongoing assessment and feedback is given regularly to the students. A variety of assessment and evaluation strategies are used in this course. Expectations are evaluated based on the provincial curriculum expectations and the strands and/or categories outlined in the ministry document.

The four categories of achievement are: Knowledge and Understanding, Thinking and Investigation, Communication and Application.

These categories help guide the creation of assessment and evaluation tools.

Each student's term mark will be in the form of a percentage grade based on their achievement in the four categories:

| | |
|-----------------------------|-----|
| Knowledge and Understanding | 30% |
| Application | 25% |
| Thinking and Inquiry | 25% |
| Communication | 20% |

The breakdown of the final mark is as follows:

| | |
|------------------|-----|
| Term Evaluation | 70% |
| Culminating Task | 10% |
| Final Exam | 20% |

The final evaluation activities will be completed during the exam period.



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In addition to students' performance in the achievement categories, students will also be assessed on their performance in the following learning skills:

- Responsibility
- Organization
- Independent Work
- Collaboration
- Initiative
- Self-Regulation

For specific policies on assessment and evaluation, and academic honesty, please refer to School Procedures in the student agenda.