Newfoundland & Labrador English School District

Curriculum Overview:
Science 1206 is an academic Pan-Canadian science course that aims to develop scientific literacy. Scientific literacy is an evolving combination of the science related attitudes, skills, and knowledge students need to develop inquiry, problem-solving, and decision-making abilities; to become lifelong learners; and to maintain a sense of wonder about the world around them. Science 1206 is an introductory academic science course before taking Physics, Chemistry, Biology or Earth Systems courses.

NOTE:
- Science 1206 is required for graduating high school with honors or academic standing.
- Science 1206 is a pre-requisite course for Chemistry 2202 and Physics 2204.
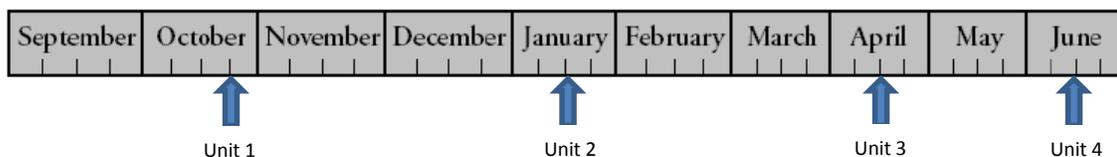
Authorized Learning Resource:
Curriculum Guide http://www.ed.gov.nl.ca/edu/k12/curriculum/guides/science
Science Resources and Support Documents - Senior High
http://www.ed.gov.nl.ca/edu/k12/curriculum/documents/science/highschool.html
Nelson Science 10

Estimated Completion

September	October	November	December	January	February	March	April	May	June

Unit 1   Unit 2   Unit 3   Unit 4

Recommended Course Sequence:

Unit 1: Sustaining Ecosystems (22h-20%)
Core Lab 1: *Schoolyard Ecosystem OR Natural Ecosystem*
Core Lab 2: *Soil Nutrients and Plant Growth OR The Animal Community in Soils*

Unit 3: Chemical Processes (33h-30%)
Core Lab 5: *Properties of Ionic and Molecular Compounds*
Core Lab 6a: *Single Displacement Reactions*
Core Lab 6b: *Double Displacement Reactions*

Unit 4: Motion (33h-30%)
Core Lab 7: *Determining an Average Speed*
Core Lab 8: *Speeding Up and Slowing Down*

Unit 2: Weather Dynamics (22h-20%)
Core Lab 3: *Heat Absorption and Radiation*
Core Lab 4: *Energy Changes During Melting and Evaporation*

Note: *Change in sequence to ensure equitable distribution of time/outcomes based on percent allocations and evaluation scheme.*

Assessment and Evaluation: (Eastern Region)
In the Eastern Region Assessment in this course is governed by the *Assessment and Evaluation Policy* of the Newfoundland and Labrador English School District - Eastern Region. This policy and associated regulations are located under "I: Instruction" at https://www.nlesd.ca/about/easternpolicies.jsp. This section may change as the new NLESD Assessment and Evaluation policy is updated.

Evaluation is the process of analysing, reflecting upon, and summarizing assessment information, and making judgments or decisions based upon the information gathered.
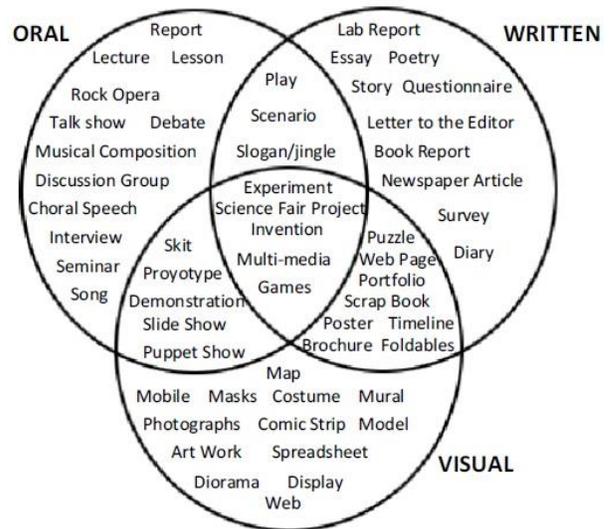
Tests/Quizzes	**20%**
Performance Assessment	**40%**
First Examination	**20%**
Second Examination	**20%**

The evaluation of the course shall reflect the percent unit allocations.

Note: All evidence of learning shall be considered when determining a student's final grade. Averaging shall not be used as a sole indicator of a student's level of attainment of the course outcomes.

Assessment:

Assessment is intended to inform instruction, provide feedback to students, and meet the needs of diverse learners. It is used for the purposes of grading, certifying, and promoting students. All assessments should be outcome-based and designed to test students' basic knowledge of content, their understanding and ability to apply content, and ability to synthesize and problem solve. Assessments should provide equal opportunity for all students according to their abilities, needs, and interests. As a result, teachers make adaptations to accommodate the diverse range of learners in their classes.

ORAL — WRITTEN — VISUAL

Report, Lecture, Lesson, Rock Opera, Talk show, Debate, Musical Composition, Discussion Group, Choral Speech, Interview, Seminar, Song, Skit, Proyotype, Demonstration, Slide Show, Puppet Show

Play, Scenario, Slogan/jingle, Experiment, Science Fair Project, Invention, Multi-media, Games

Lab Report, Essay, Poetry, Story, Questionnaire, Letter to the Editor, Book Report, Newspaper Article, Survey, Puzzle, Web Page, Diary, Portfolio, Scrap Book, Poster, Timeline, Brochure, Foldables

Map, Mobile, Masks, Costume, Mural, Photographs, Comic Strip, Model, Art Work, Spreadsheet, Diorama, Display, Web

Source: K. O'Connor, The Mindful School: How to Grade for Learning (Skylight Publications, 1999)

Examinations:
Science 1206 has two major examinations that should be designed to be completed in a 2-hour time period. Each examination should test all course outcomes from two units and include selected response (multiple choice) and constructed response items and contain 8-10% from core labs.

Performance Assessment:
Performance assessments should emphasize project-based learning and require students to show what they can do by using a wide variety of activities that permit students to have their learning styles addressed. Performance assessment should also include student self- assessments and rubrics.