

Curriculum Overview:

Physics 2204 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.

NOTE: Physics 2204 is a pre-requisite for Physics 3204.

Authorized Learning Resource:

Department of Education Curriculum Guide for Physics 2204

<http://www.ed.gov.nl.ca/edu/k12/curriculum/guides/science/index.html>

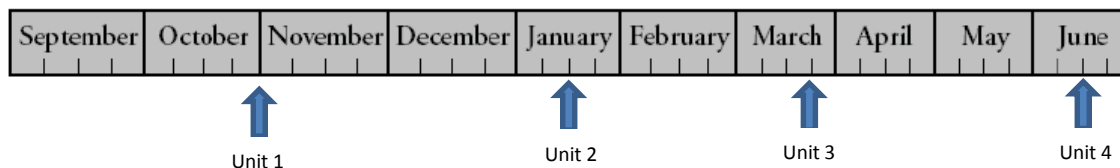
Science Resources and Support Documents - Senior High

<http://www.ed.gov.nl.ca/edu/k12/curriculum/documents/science/highschool.html>

Physics: Concepts and Connections - Combined Edition (Nelson)

<http://www.nelson.com/nelson/school/secondary/science/0772529558/default.html>

Estimated Completion



Course Sequence:

Unit1: Kinematics (25h-23%)

Core Lab 1: *Acceleration due to Gravity*

Core STSE 1

Unit2: Dynamics (30h-27%)

Core Lab 2: *Newton's Second Law*

Core Lab 3: *Kinetic Friction*

Core Lab 4: *Linear Momentum*

Core STSE 2

Unit3: Work and Energy (25h-23%)

Core Lab 5: *Work Energy Theorem*

Core Lab 6: *Conservation of Energy*

Core STSE 3

Unit4: Waves (30h-27%)

Core Lab 7: *Snell's Law*

Core Lab 8: *Speed of Sound*

Core STSE 4

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	25%
Performance Assessment	25%
Midyear Examination	15%
Final Examination	35%

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.

Note: Students should be provided with all applicable formulae for testing.

Midyear Examination:

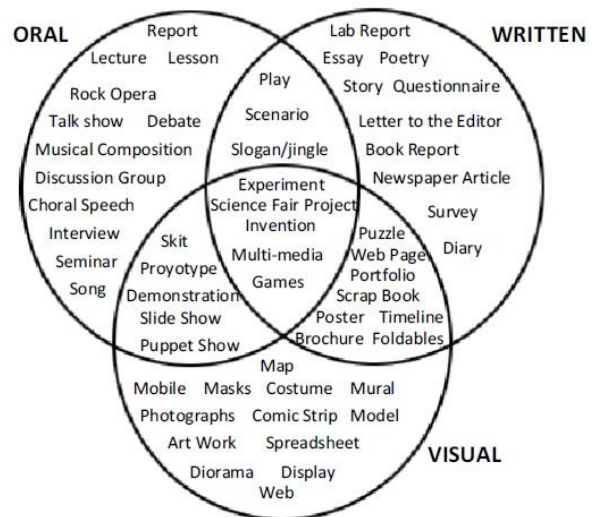
The mid-year examination tests all course outcomes to that point. It will include selected response (multiple-choice) and constructed response items. The examination is designed to be completed in a 2- hour time period.

Final Examination:

The final examination should test all outcomes from the course in a 2-hour time period. It should include selected response (multiple-choice) and constructed response items and contain 15-20% of core lab and STSE outcomes.

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.



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