



Course Description/Rationale/Overview: This is a survey course in Science that extends the strands and skills that were introduced in Grade 9. Concepts from Ecology, Introductory Chemistry and Reactions, Force and Motion, and Weather will be studied. Making connections with everyday situations will be emphasized throughout the course.

Class Requirements:

Text: SciencePower 10
(Replacement cost: \$50)

**Other materials: Calculator
Binder**

Missed Tests and Late Assignments

Students are to be present for test dates. There must be a verified, valid reason when a test is missed. The teacher may provide an alternative opportunity for testing or record an "absent" for that test for legitimate absences.

All summative assignments will have a clear *Due Date*. Assignments that are handed after the *Due Date* will be accepted and assessed by the teacher if submitted prior to the deadline.

Where a student has not submitted enough work for the teacher to determine the student's level of achievement the report card will indicate that the student's work is incomplete and no grade will be assigned.

Assessment Strategies

Each unit or strand of the course will be evaluated using summative evaluations. Students will also be expected to complete assessment activities of a formative nature in order to learn and to practice the specific expectations that will compose these summative expectations. Examples of summative evaluations are tests, case studies, presentations, seminars, debates, lab write-ups, research and other writing assignments.

Achievement Categories

Knowledge/Understanding	31%
Thinking/Inquiry	19%
Communication	37%
Application	13%

Curriculum strands:

- Biology
- Chemistry
- Earth and Space
Science
- Physics

Learning Skills:

Works Independently
Team work
Organization
Work Habits
Initiative

Evaluation

The year's work will be based on a number of assignments, activities, reports, and tests that will include aspects of the four Achievement Categories.



COURSE OUTLINE

Unit 1 Weather	Earth and Space Science	Students will look at the Scientific basis of weather and then use these concepts to explain the weather events that occur.
Unit 2 Introductory Chemistry	Chemistry	We will look at the structure, behavior, and bonding of particles. This information will then be used to explain the structures and properties of chemicals that we use.
Unit 3 Chemical Reactions	Chemistry	Chemical reactions, chemical nomenclature, and special applications will be looked at.
Unit 4 Force and Motion	Physics	Collecting data and graphing will lead to understanding the concepts of displacement, velocity, and acceleration. Formulas will be developed and applied to a variety of situations.
Unit 5 Ecology	Biology	The structure and processes of ecosystems are studied. Their sustainability and relationships will be analyzed.

Chemistry 3U → Chemistry 4U

Science 2D → Biology 3U → Biology 4U

Physics 3U → Physics 4U