



Durham District School Board
Brooklin High School
Science Department
Course Outline: CHEMISTRY, Grade 11, University

Department Head: D. O'Neill

Teachers:

Course Code: SCH 3U (Credit Value: 1.0)

Prerequisites: SNC 2D1

Overall Curriculum Expectations:

Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.

Course Description:

This course focuses on the concepts and theories that form the basis of modern chemistry. Students will study the behaviours of solids, liquids, gases and solutions; investigate changes and relationships in chemical systems; and explore how chemistry is used in developing new products and processes that affect our lives and our environment.

Course Strands:

Scientific Investigation Skills and Career Exploration, Matter Chemical Trends and Chemical Bonds, Chemical Reactions, Quantities in Chemical Reactions, Solutions and Solubility, Gases and Atmospheric Chemistry

Units of Study:

Unit 1: Matter, Chemical Trends and Chemical Bonding

Unit 2: Nomenclature and Chemical Reactions

Unit 3: Quantities in Chemical Reactions

Unit 4: Solutions and Solubility

Unit 5: Gases and Atmospheric Chemistry

Teaching Strategies:

A variety of teaching and learning strategies will be incorporated throughout the course.

Assessment & Evaluation:

Assessment and evaluation will encompass all four categories of achievement: **Knowledge and Understanding; Thinking/Inquiry; Communication; and Making Connections/Application.** This course will involve a number of assessment and evaluation strategies that will provide all students an opportunity to meet with success.

Term Work: 70%

Labs and Assignments	30%
Quizzes	10%
Tests	30%

Final Summative: 30%

Summative Project	5%
Final Exam	25%

Learning Skills and Work Habits:

The following Learning Skills and Work Habits are evaluated regularly using a scale of Excellent, Good, Satisfactory or Needs Improvement: **Responsibility, Organization, Independent Work, Collaboration, Initiative, Self-Regulation.**

Textbook: Nelson, Chemistry 11 (replacement cost: \$80.00)

Class requirements: 3-ring binder, scientific calculator, pen, pencil, ruler