



Sturgeon Composite High School

Chemistry 30 COURSE OUTLINE

Semester II - 2018/2019



PREREQUISITE: Chemistry 20 – minimum mark recommended 65%

TEXT: Inquiry into CHEMISTRY – McGraw-Hill Ryerson
or
Nelson Chemistry

COURSE MATERIALS:

scientific or graphing calculator
data booklet (supplied)

binder
graphing paper
ruler

COURSE CONTENT: Chemistry 30 consists of four units of study.

Students will be encouraged to develop positive attitudes that support the responsible acquisition and application of knowledge related to science and technology. Attitude outcomes such as an interest in science, mutual respect, scientific inquiry, collaboration, stewardship, and safety are to be developed throughout Chemistry 30, in conjunction with the specific outcomes for Knowledge as outlined below; Science, Technology and Society (STS); and Skills in each unit.

UNIT A: THERMOCHEMICAL CHANGES (21%)

1. determine and interpret energy changes in chemical reactions
2. explain and communicate energy changes in chemical reactions

UNIT B: ELECTROCHEMICAL CHANGES (31%)

1. explain the nature of oxidation-reduction reactions
2. apply the principles of oxidation-reduction to electrochemical cells

UNIT C: CHEMICAL CHANGES OF ORGANIC COMPOUNDS (18%)

1. explore organic compounds as a common form of matter
2. describe chemical reactions of organic compounds

UNIT D: CHEMICAL EQUILIBRIUM FOCUSING ON ACID-BASE SYSTEMS (30%)

1. explain that there is a balance of opposing reactions in chemical equilibrium systems
2. determine quantitative relationships in simple equilibrium systems

COURSE EVALUATION: The final mark in Chemistry 30 will be based upon the following:

DIPLOMA EXAM: 30 %

Cumulative provincial exam of all course material

TERM WORK: 70%

Exams	45%	Exams that covers all outcomes of the unit
Quizzes	35%	Quizzes that cover a group of objectives within the unit
L/A	20%	Lab and assignments covering groups of objectives within the unit

RESOURCES:

Textbook

- Inquiry into CHEMISTRY* - McGraw-Hill Ryerson
- Chemistry* - Nelson
www.science.nelson.com
Username: **nelsonchem_student**
Password: **nelsonchem_onlinelearning**
simulations, explanations, self-quizzes,
and an illustrated glossary

The Key - Castle Rock Research <https://goo.gl/4h2Akq>

Chemistry 30 Program of Studies <https://goo.gl/bxbliB>

Chemistry 30 Data Booklet <https://goo.gl/k48EoH>

Diploma Information Bulletin <https://goo.gl/cvQuke>

Quest A+ <https://goo.gl/YCyWQK>

BEHAVIORAL EXPECTATIONS: All students and staff are expected to treat each other with respect.

LAB BEHAVIOUR: Chemistry 30 is a lab course and the appropriate behaviour and procedures will be followed in the interest of safety and a favourable learning environment. Due to the potential hazards in the lab, absolutely **NO CARELESS BEHAVIOUR WILL BE TOLERATED.**

ATTENDANCE: Attendance and punctuality will be consistent with school policy. Catching up after an absence is essential and the responsibility for finding out exactly what material was covered, including assignments, notes, handouts, etc. rests entirely with the student. All summative evaluations will be completed upon return to class unless extenuating circumstances have been communicated in advance.

EXTRA HELP: Extra help is available most noon hours. Please make an appointment with the teacher. Please keep in mind that the teacher is always willing to provide extra help, but for this to be beneficial, the student must be willing to improve and take advantage of the time in class.

TIPS FOR SUCCESS:

- Keep your notes titled, dated and organized in sections.
- Spend at least 30 minutes every night **reviewing** notes, reading appropriate text pages and doing relevant text questions and homework.
- Use the KEY
- Complete all labs and assignments.
- Use an agenda to keep track of important dates and check it daily.
- Set up a study schedule so that things are not overlooked.
- Seek help as soon as you realize there is a problem or misunderstanding.
- Speak to me to set up a meeting time if help is needed.