

GRADE 12 CHEMISTRY

OBJECTIVES

- (i) To increase the student's understanding of chemistry through the study of organic chemistry, properties of matter, energy changes, rates of reaction, equilibrium and electrochemistry.
- (ii) To develop the student's problem-solving and investigation skills through lessons, practice problems and assessments.
- (iii) To aid students in the evaluation of chemical technology in the world and to help them appreciate the importance of chemistry in everyday life.

COURSE TEXTs

Lessons are based on the Ontario Curriculum for Grade 12 Chemistry. Pictures and materials are taken from McGraw-Hill Ryerson Chemistry 12 (2006).

STUDY AIDS

Please check the course website regularly for lecture notes and additional resources. Students are expected to bring the following to each class:

- Lecture notes
- Pen/Pencil
- Calculator
- Periodic Table

HOMEWORK

Students will be given 10-15 questions for homework each class. Students are expected to complete the homework before the next week. Marks from the homework will be recorded. Three consecutive incomplete homeworks will result in a phone call home.

EVALUATION

Students will be assessed regularly through tests after every unit as take-home assessments.

Test 1: Organic Chemistry

Test 2: Structure and Properties of Matter

Test 3: Energy Changes and Rates of Reaction

Test 4: Chemical Systems and Equilibrium

Test 5: Electrochemistry

TEACHER INFORMATION

Teacher Name/Contact Info: Ms. Chong jchong@olympiadsmail.ca

MAKE-UP SESSIONS

Chemistry G12-1 (Saturdays 1:20pm-3:50pm)

Chemistry G12-3 (Sundays 10:30am-1:00pm)

Chemistry G12-2 (Sundays 1:20pm-3:50pm)

COURSE SCHEDULE

Class	Date	Description
1	Sep 7 / Sept 8	Organic Chemistry (1)
2	Sep 14 / Sep 15	Organic Chemistry (2)
3	Sep 21 / Sept 22	Organic Chemistry (3)
4	Sep 28 / Sept 29	Organic Chemistry (4) Test 1: Organic Chemistry
5	Oct 5 / Oct 6	Structure and Properties of Matter (1)
6	Oct 12 / Oct 13	Structure and Properties of Matter (2)
7	Oct 19 / Oct 20	Structure and Properties of Matter (3) Test 2: Structure and Properties of Matter
8	Oct 26 / Oct 27	Energy Changes and Rates of Reaction (1)
9	Nov 2 / Nov 3	Energy Changes and Rates of Reaction (2)
10	Nov 9 / Nov 10	Energy Changes and Rates of Reaction (3) Test 3: Energy Changes and Rates of Reaction
11	Nov 16 / Nov 17	Chemical Systems and Equilibrium (1)
12	Nov 23 / Nov 24	Chemical Systems and Equilibrium (2)
13	Nov 30 / Dec 1	Chemical Systems and Equilibrium (3)
14	Dec 7 / Dec 8	Chemical Systems and Equilibrium (4) Test 4: Chemical Systems and Equilibrium
15	Dec 14 / Dec 15	Electrochemistry (1)
16	Dec 21 / Dec 22	Electrochemistry (2) Test 5: Electrochemistry