Loyola HIGH SCHOOL

Secondary 5 Chemistry

Course Outline

Teacher: Ms. Mongeon **E-mail:** mongeona@loyola.ca **Office hours:** after school daily

Periods per cycle: 6

Material required:

- Lab glasses and coat (replacement of glasses = 7.00$)
- Non-programmable calculator
- Hilroy (only for science), loose leaf
- Graph paper (20 sheets)
- Textbook (must have for all classes)
- iPad

Course Information:

Through experimentation and application, students will strengthen their fundamental understanding of the core concepts in chemistry. Further investigation into the structure and behaviour of matter and its transformations, will enhance the ability to think critically and hone problem solving skills. Importance will be placed on recognizing the role of chemistry in everyday life. To succeed in this course, it is crucial for students to remain organized and disciplined, as there will be opportunities for self-directed learning.

Term 1

- Review: scientific notation, dimensional analysis, the mole, balancing chemical equations
- Significant figures
- Stoichiometry- Excess and limiting
- Nomenclature
- Behaviour of gases
- Thermochemistry

Term 2

- Thermochemistry cont.
- Reaction rates
- Equilibrium in chemical systems

Term 3

- Le Chatelier's Principle
- K_{sp}
- Acids and pH

Class work and Laboratory work:

1. *Students are expected to complete all assigned worksheet questions to practice problem solving and enhance learning. These may be checked for completion or collected and marked.*
2. *Quizzes will be given following every few classes to assess progress within the unit of study.*
3. *Lab reports will be assigned throughout this course. Lab reports must follow the accepted format to receive full marks.*

Any missed tests must be completed on a student's first day back at school. For missed labs due to illness or known absence, Mr Dagher must be contacted within 24 hours of the lab date being announced/day of illness to make arrangements. A 20% late penalty per day is policy if the above does not occur.

Evaluations:

Theory (60% weighting):

a) Unit tests/quizzes/assignments/Homework

- 100% of term 1, 100% term 2, and 50% term 3 theory grade
- 3-6 per term

b) Exam

- June final exam
  - 50% of term 3 theory grade

Practical (40% weighting):

a) Major lab reports

- 1 each term, worth 50% of term 1's practical grade and 30% of term 2 and 3

b) Minor Lab reports

- 2-4 each term with total worth 50% of term 1's practical grade 30% of term 2 and 3
- ALL lab submissions are individual (no group reports)

c) Lab exams

- December lab exam (TBD- subject to change)
  - 40% of term 2 practical grade
- June lab exam
  - 40% of term 3 practical grade

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Competencies:

Competency	Weighting	Wording in Report Card
Seeks answers or solutions to scientific or technological problems **Communicates in the languages used in science and technology**	40%	**Practical**
Makes the most of his knowledge of science and technology **Communicates in the languages used in science and technology**	60%	**Theory**

Report Cards:

Report	Month	Value
Preliminary	October	None – only a written communication with parents at the start of the year
Term 1	November	20%
Term 2	February	20%
Term 3	June	60%