



VIRTUAL CAMPUS

Standards and Procedures for the 2025-2026 School Year

Chemistry, Secondary 5

Evaluation and Weighting of Competencies: Subject Competencies	Term 1 (20%)	Term 2 (20%)	Term 3 (60%)
See breakdown information in General Information regarding evaluation below.			
Practical <ul style="list-style-type: none"> Seeks answers or solutions to problems involving chemistry Communicates ideas relating to questions involving chemistry, using the languages associated with science and technology (40%) 	Hands-on and Virtual Labs (100%)	Hands-on and Virtual Labs (100%)	Hands-on and Virtual Labs (80%) Lab Exam (20%)
Theory <ul style="list-style-type: none"> Makes the most of his/her knowledge of chemistry Communicates ideas relating to questions involving chemistry, using the languages associated with science and technology (60%) 	Unit Tests Assignments Practice Activities See percentage breakdown below*	Unit Tests Assignments Practice Activities See percentage breakdown below*	Unit Tests Assignments Practice Activities Final Exam (30% of term mark)

General Information regarding evaluation:

***Competency of each concept will count as approximately 11% of the theory grade for each term. Refer to concepts covered by term in chart on next page.**

Students will be given multiple opportunities to show growth on each concept throughout the term through formal evaluations (submitted assignments/labs and unit tests) as well as informal evaluations (practice activities, group work during class, posting/commenting in our class discussion area, etc.).

- WQSB Virtual Campus teachers provide instruction and evaluation for this course.
- The Virtual Campus respects the timetable for report cards identified by each school.
- Online students will complete a lab exam and a final theory exam at the end of the school year, where required by the local school.
- Supervision of tests will be provided by the local school.
- Students must complete their own work and complete evaluations independently. In cases of cheating:
 - First time, students involved will be given zero on the assignment/test with the opportunity to re-do assignment for maximum of 60%. School/family will be informed.
 - Second time, students involved will be given zero and additional consequences.

PROGRESSION OF LEARNING (Compulsory Concepts) - CHEMISTRY
Gases <ul style="list-style-type: none">– Chemical properties of gases ¹<ul style="list-style-type: none">• Reactivity– Physical properties of gases<ul style="list-style-type: none">• Kinetic theory of gases ¹• General gas law ¹• Ideal gas law ²• Dalton's law ²• Avogadro's hypothesis ²• Molar volume of a gas ²
Energy changes in reactions ² <ul style="list-style-type: none">– Energy diagram– Activation energy– Enthalpy change– Molar heat of reaction
Reaction rate ³ <ul style="list-style-type: none">– Factors that influence reaction rate<ul style="list-style-type: none">• Nature of reactants• Concentration• Surface area• Temperature• Catalysts– Rate law
Chemical equilibrium ³ <ul style="list-style-type: none">– Factors that influence the state of equilibrium<ul style="list-style-type: none">• Concentration• Temperature• Pressure– Le Chatelier's principle– Equilibrium constant<ul style="list-style-type: none">• Water ionization constant• Acidity and alkalinity constants• Solubility-product constant– Relationship between the pH and the molar concentration of hydronium and hydroxide ions

¹ = evaluated in Term 1 ² = evaluated in Term 2 ³ = evaluated in Term 3

Online Context: Self-Paced – 200 minutes of in-school work including 1 30-minute live instructional session