



Archbishop MacDonald Catholic High School

Course Chemistry 20

Year 2025-2026

Term Semester 1

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Resources *Chemistry, Jenkins et-al, Nelson, 2007*

Program of Studies [Chemistry Program of Studies](#)

Overview

A. The Diversity of Matter and Chemical Bonding

Students will describe the role of modelling, evidence, and theory in explaining the structure, chemical bonding, and properties of molecular and ionic compounds.

B. Forms of Matter: Gases

Students explain molecular behaviour, using models of the gaseous state of matter.

C. Matter as Solutions, Acids and Bases

Students will investigate solutions, describing their physical and chemical properties. Students will describe acidic and basic solutions qualitatively and quantitatively.



D. Quantitative Relationships in Chemical Changes

Students will explain how balanced chemical equations indicate the quantitative relationships between reactants and products involved in chemical changes.

Students will use stoichiometry in quantitative analysis.

IB Philosophy

MAC's courses use the IB philosophy to encourage the holistic development of all students. The Learner Profile and Approaches to Teaching and Learning are used at all levels so that students develop a better understanding of curriculum objectives. This course will focus on the Learner Profile for THINKERS because we use critical and creative thinking skills to act on complex problems. Our Approaches to Learning skill will be THINKING because we emphasize skills such as reflection and critical thinking.

Assessment

Unit A – The Diversity of Matter & Chemical Bonding	15%
Unit B – Forms of Matter: Gases	11%
Unit C – Matter as Solutions, Acids & Bases	27%
Unit D – Quantitative Relationships in Chemical Changes	27%
Common Summative Assessment (Final Exam)	20%

The code NHI may be used to represent coursework that has not been handed in. It is representative of zero. In addition, the following may appear for a student in PowerSchool instead of, or in addition to, a numeric grade:



Standards



Has Description



Has Comment



Collected



Late



Missing



Exempt from
Final Grade



Absent



Incomplete



Excluded

Disclaimer

A wide range of assessment information is used in the development of a student's final grade. At Archbishop Macdonald Catholic High School, individualized assessments provide specific information regarding student progress and overall performance in class. Student assessment may vary from student to student to adapt for differences in student needs, learning styles, preferences, and paces. It should also be noted that not all assignments are used to determine the final grade, and that scale factors may have been used to determine the weight of individual assignments.

Personal Mobile Device Standards

Mobile Devices and Social Media Use:

- Personal mobile devices are to be silenced or turned off and stored in the student's assigned locker during the day, which must be locked.
- No personal mobile devices are to be used during the day except for at lunch.
- No social media is to be accessed during the school day.
- The standards for Personal Mobile Devices includes cell phones, SMART watches, earbuds, and headphones
- Non-compliance with the standards will result in consequences of a suspension or loss of privileges such as participation in school trips, or activities, sports teams, and extracurricular activities.

Expectations

Unexcused absences and/or lates are unacceptable and may have a negative effect on the grade. Missed coursework may be expected to be completed and may be scored as zero or NHI until submitted (see disclaimer).

Laboratory Safety Standard

Science at Archbishop MacDonald is a hands-on, skill-based discipline involving activities that may entail risk. Safety in the laboratory takes precedence over all instructional concerns. To ensure your safety and the safety of others, the following laboratory safety standard is always in effect:

1. Conduct must be professional. Counter-sitting, throwing, playing, pranking, and unsanctioned experiments are prohibited.
2. Footwear must completely cover the foot. Sandals, slides, and/or clogs are prohibited.
3. Food and/or drink are prohibited.

There is a **zero-tolerance policy** for violations of the safety standards; failure to comply with these standards will result in immediate exclusion from the lab activity. Additional safety measures that are activity dependent may also be required.

Student Handbook [LINK](#)

Academic Integrity [LINK](#)



