



Archbishop MacDonald Catholic High School

Course Science 30

Year 2026-2027

Term Semester 1

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Resources Alberta Education (2007). Science 30

Program of Studies [Education Alberta Science 30 Program of Studies](#)

Overview This course consists of the following four units of study:

Unit A: Living Systems Respond to Their Environment: Students learn how the circulatory system connects cells and the external environment. Students apply the principles of heredity and genetics to explain disorders and to assess genetic technologies.

Unit B: Chemistry and the Environment: Students examine the impacts of acids and bases, organic compounds and air pollutants on aquatic and terrestrial ecosystems.

Unit C: Electromagnetic Energy: Students investigate the functioning of energy transmission and transformation technologies, based on field theory and on an understanding of electromagnetic radiation (EMR).



Unit D: Energy and the Environment: Students investigate renewable and nonrenewable energy sources and explore the need for multiple perspectives and the need to develop energy-efficient technologies. Students examine environmentally sustainable solutions to meet global energy needs.

MAC's courses use 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. We will focus on the Learner Profile for **THINKERS** because we use critical and creative thinking skills to take action on complex problems. We will focus on the Approaches to Learning skill **THINKING** because we emphasize skills such as reflection and critical thinking as well as posing problems, decision making, being reasonable, creativity, risk taking, and others.

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

The Diploma Exam is worth 30% of the final grade. The school awarded mark is worth 70% of the final grade and is based on category weightings as follows:

Unit A: 25%
Unit B: 25%
Unit C: 25%
Unit D: 25%

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



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).

Student Handbook [LINK](#)

Academic Integrity [LINK](#)