



Archbishop MacDonald Catholic High School

Course Physics 35 IB

Year 2023 - 2024

Term Semester 2

Teacher(s) James Kriese

Resources *Physics, Homer, Bowen-Jones, Oxford University Press, 2014*

Program of Studies [IB Physics Guide](#)

Overview

Topic 3: Thermal Physics

3.1 – Thermal Concepts

Required lab: *applying the calorimetric techniques of specific heat capacity or specific latent heat experimentally*

3.2 – Modelling a Gas

Required lab: *investigating at least one gas law experimentally*

Topic 5: Electricity and Magnetism

5.1 – Electric Fields

5.2 – Heating Effect of Electric Currents

Required lab: *investigating one or more of the factors that affect resistance experimentally*

5.3 – Electric Cells

Required lab: *determining internal resistance experimentally*

Topic 8: Energy Production

8.1 – Energy Sources



8.2 – Thermal Energy Transfer

Topic 11: Electromagnetic Induction

11.2 – Power Generation and Transmission

Required lab: *investigating a diode bridge experimentally*

11.3 – Capacitance

Option D: Astrophysics

IB Philosophy

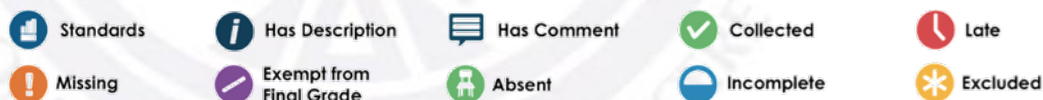
MAC's courses use the IB philosophy to encourage the holistic development of all students. The Learner Profile and Approaches to Teaching and Learning are used at all levels so that students develop a better understanding of curriculum objectives. This course will focus on the Learner Profile for THINKERS 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

Summative assessments include quizzes, assignments and labs and they are weighted relative to each other according to raw score. Note that not all labs and assignments are for marks.

Summative Assessments	80%
Internal Assessment	20%
Formative Assessments	0%

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.

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](#)

