

GROUP 4 PROJECT

Fall 2011

International
Baccalaureate
Champlain College
Saint-Lambert

Group 4 Project



Purpose:

The group 4 project is a collaborative activity where students work together on a scientific or technological topic, allowing for concepts and perceptions from across the disciplines to be shared. The group 4 project allows students to appreciate the environmental, social and ethical implications of science and technology. It may also allow them to understand the limitations of scientific study, for example, the shortage of appropriate data and/or the lack of resources. The emphasis is on interdisciplinary cooperation and the processes involved in scientific investigation, rather than the products of such investigation.

For this activity you will participate in a study related to the **Greenhouse Project**, directed by Kory Goldberg, (kgoldberg@champlaincollege.qc.ca).

Each team will work on one aspect of the Greenhouse Project, **using either Physics or Chemistry concepts**, in order to help the design and implementation of the Greenhouse during the fall semester. The results of the study and how they were useful in the greenhouse construction will be presented in a team report that you must submit to Rémi Poirier at the end of the Fall semester, and a presentation of your results will be done during the following semester.

Your Essay should demonstrate the fulfillment of the two following objectives (competencies):

- “develop and apply the students’ information and communication technology skills in the study of science”.
- “raise awareness of the moral, ethical, social, economic and environmental implications of using science and technology”.

Report:

The report must be written with the same structure as an essay: **Introduction, Discussion, Conclusion**. If data or calculations are presented use the methods learned in your science labs to present them. You must also present a **Reference list**. It is not possible to complete this project without the use of references.

The report must finally contain a **Task list**: What did each individual do in the team? A detailed list is required.

Length

Approximately 10 pages double spaced.

Deadline

Last Day of Fall semester, 2011.

Allocation of tasks

It is part of the objectives of this activity that your team equitably distribute the work to all its members. Not all members need to be involved in all aspects of the work. For example if one or two team member do not participate in the redaction of the final report, they may choose instead to prepare a multimedia presentation to present the result of their study to the rest of the class the following semester.

In any case, the distribution of tasks must be clearly identified in the report in order for the evaluator to assign a grade to each individual in the team.

Is it mandatory?

The Group 4 project is a required component of the IB Diploma and is therefore mandatory.

How long should it take me?

You should schedule about 10 hours to complete the Group 4 project.

Project stages

The project can be divided into three stages: planning, action and evaluation.

Planning

A session will be held at the beginning of the Fall semester to discuss your ideas and how your team will implement them. You will have to think about your project **BEFORE** the start of the Fall semester.

Action

During this stage you will actively work on your study and on the implementation of your ideas with Kory.

Evaluation

During this stage you will be expected to share your results, both successes and failures, with other students. This will be done during your last semester in your IB Physics class.