

SCIENCE CONCENTRATION PROGRAM



PROGRAM PHILOSOPHY

The Alexander Galt Science Concentration Program is a project based curriculum that explores the same topics as a traditional Level 1 Science class, but through an intensive hands-on approach. Students go into greater depth in each topic as they apply their learning to multisensory projects; taking risks, exploring solutions, and making decisions.

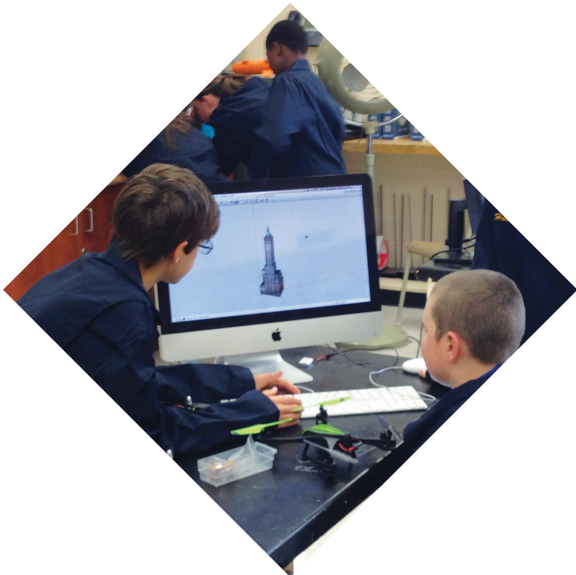
TARGET STUDENTS

Any Level 1 or 2 student who is passionate about Science and Technology may register for the Science Concentration Program. Typically, Science Concentration students are hardworking and are detail oriented people who have a heightened sense of curiosity about the world around them. They would usually take things apart (even if they're not broken!), test ideas, and above all ask the fundamental question, "Why?".

GENERAL DESCRIPTION OF THE PROGRAM

Students in the program will receive double the amount of Science instruction compared to their peers. The classes are structured in double blocks, allowing for in depth exploration of the material and application of understanding through exciting hands-on projects. This means more labs, more "doing", more learning, and more fun!

In Cycle 1 (level 1 & 2) the students attend 8 blocks of concentration over 9 days. With the acceleration of certain academic subjects, one of the 8 blocks of 75 minutes is used as an academic block to help students keep up with their work.



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PROGRAM HIGHLIGHTS

- + In House Biology: We bring nature into the classroom and study how organisms adapt to their environment. Tilapia fish, ant farms, and various vegetable crops are all cared for.
- + The Fukushima Challenge: A design competition for the best “Fire Fighting Robot”. Students will design, build, and program their own autonomous robot to navigate the wreckage of an out of control nuclear plant, putting out fires along the way!
- + Space Race: Students participate in the launching, GPS tracking, and recovery of a high altitude atmospheric probe.
- + Wind Generator Design: Using Google Sketchup© Software, students will be on the cutting edge of the new clean energy economy, as they design, 3D print, and build their own working wind generator.
- + In the Science Concentration Program, an atmosphere of high level achievement in both academic and scientific endeavors is created and expected. As well, students follow either base or enriched French and have the option to study certain subjects in French, such as Science and Social Studies. This allows for a unique bilingual experience within an English school environment.



ELIGIBILITY

Any student entering Level 1 or 2 is eligible to apply for the program. We recommend that each student has an academic standing of 70% and/or no failures.

Students should exhibit a positive and professional attitude, a strong work ethic and leadership abilities.

CONTACT INFORMATION

For more information and to receive an application package, please contact our school, or email agconcentrations@gmail.com or access our school website: alexandergalt.etsb.qc.ca/concentrations

