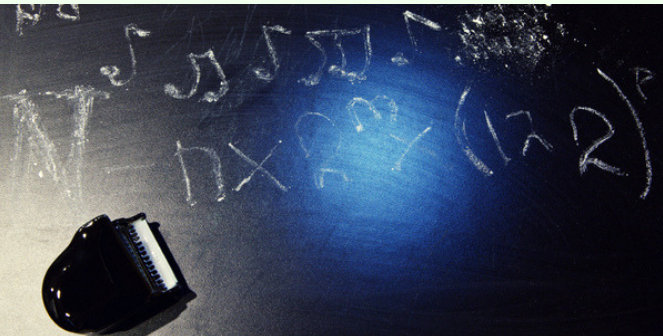


Music and Mathematics



Implementation of an innovative musical program to promote the development of mathematical learning in collaboration with three faculties at the Université de Montréal (Education, Occupational Therapy and Music)



Set up a training program aimed at developing mathematical learning through music

In partnership with the Université de Montréal



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Many studies have shown the benefits of learning music on academic success and school perseverance. We wish to contribute to this research by developing a music program integrated, in part, in the school's curriculum, which will include musical practices specifically dedicated to the development of mathematical skills as well as fine and gross motor skills.

This project would also allow Vanguard School to gradually acquire musical equipment allowing for the integration of music programs into the school's curriculum at a later date. These instruments could also be used in extracurricular activities. These wishes were also expressed on several occasions by the elementary and high school sectors.

Elements required to implement the project

- Musical instruments: Mainly string instruments (violin, viola, cello, double bass, guitar) and percussion; music sheets and arrangements.
- Room configuration suitable for music practice (a common room with the presence of 3 to 4 small soundproof rooms and another room for a group including storage space for all instruments).
- A resource person.

The results of this research will be shared in a scientific publication.

The proposed classical music program will include:

- Choral singing
- learning to play instruments
- Learning of musical discourse and playing in an orchestra

The program will be rolled out in three phases (one year per phase). This will allow students to be introduced to the world of music at a suitable pace, from exploration to a more advanced level allowing them to acquire skills in playing instruments and to experience being part of an orchestra.

This research will allow those involved (University faculties and Vanguard School) to generate new knowledge and to reach students differently in the development of their mathematical skills.

