



MASSEY-VANIER HIGH SCHOOL

**SECONDARY 3 & 4
2015-2016**

INFORMATION BOOKLET



EDUCATION PATHWAYS

AND

COURSE DESCRIPTIONS

REQUIREMENTS FOR OBTAINING A HIGH SCHOOL DIPLOMA

Requirements After 2010

Students finishing their secondary studies in June 2010 and thereafter.

The Ministry of Education will grant a High School Diploma to a student who has fulfilled the following requirements:

54 credits in Sec. IV and Sec. V
20 of these credits must be at the Sec. V level.

Of these credits, the following courses are compulsory:

- Sec. V Language of Instruction (English)
6 credits
- Secondary V French Second Language
4 credits
- Sec. IV History & Citizenship Ed. 4 credits
- Sec. IV Mathematics 4 Credits
- Sec. IV Arts education 2 credits

- Sec. IV Science & Technology 4 credits
OR
- Sec. IV Applied Science & Tech 6 credits

- Sec. V Ethics & Religious. Culture
OR
- Sec. V Physical Ed. & Health 2 credits

WHAT YOU NEED TO KNOW BEFORE CHOOSING YOUR PATHWAY OR OPTIONS

If your goal is to enter a D.E.P. (Vocational Education Program) you will need the following:

- You must have obtained a high school diploma

Or

- You are 16 years of age and have obtained credits for Secondary IV English Language Arts, French Second Language and Mathematics

Samples of D.E.P. programs:

Hairdressing

Professional Cooking

Cabinet Making

Auto Mechanics

Construction Trades (Plumbing, Carpentry)

Home Care Assistance

For more information about programs in Vocational Education check the website at:

www.inforoutefpt.org

If you plan to attend CEGEP (college studies) once you have obtained your high school diploma:

Most CEGEPS offer two kinds of programs:

- **Pre-university:**
2 year general programs of study for students who wish to continue their education at the university level
- **Career Technologies:**
3 year specialized career programs for students who wish to enter the work force once they have completed their college studies.

Along with requiring a high school diploma, some CEGEP programs have additional course requirements you should be aware of:

PRE-UNIVERSITY PROGRAMS (2 YEAR):

Program	Leading to	High School Courses Required
Sciences (Health and Pure and Applied Sciences)	Dentistry, Medicine, Pharmacy, Veterinary Medicine, Physiotherapy, Physical and Occupational Therapy, Architecture, Engineering and Computer Science, Forestry	<ul style="list-style-type: none"> • Sec. V Science or Tech. & Scientific Math; • Chemistry and Physics; • Overall average of 75%
Social Science	Anthropology, Criminology, Social Work, Law, Education, Psychology, History and Economics	<ul style="list-style-type: none"> • Cultural, Social and Technical Math
Social Science (with Math)	Commerce, Accounting, Finance, Management, Marketing and Advertising	<ul style="list-style-type: none"> • Science or Tech. & Scientific Math
Creative Arts	Cinema, Communications, Journalism, Studio	<ul style="list-style-type: none"> • Sec. IV Cultural, Social and Technical Math
Liberal Arts	Arts, Translation, Linguistics, Languages Translation, Linguistics, Languages Classics, Education, History, Law, Philosophy, Journalism	<ul style="list-style-type: none"> • Sec. V Science or Tech. & Scientific Math; • An overall average of 75%
Fine Arts and Music	Ceramics, Fine Arts, Music, Graphic Arts	<ul style="list-style-type: none"> • Sec. IV Cultural, Social and Technical Math

CAREER OR TECHNOLOGY PROGRAMS (3 YEAR):

In general, career programs in the **biological or physical sciences** will require students to have a minimum of Secondary IV Technical and Scientific Math and/or Secondary IV Environmental Science and Technology.

However, some programs may also require students to have either Chemistry or Physics. For a more detailed list, see your guidance counsellor.

Social Science careers (working with people) require a minimum of Sec. IV Cultural, Social and Technical Math

Administrative careers that deal with business and/or finance have a minimum requirement of Sec. IV Technical and Scientific Math.

Careers in the **Applied Arts** (Music, Theatre, Photography, Graphic or Interior Design) require a minimum of Sec. IV Cultural, Social and Technical Math and students may also have to submit a portfolio or audition to be admitted.

Explore occupations and fields of study at www.careercruising.com

Username: Massey

Password: Vanier

Still not sure?

See your guidance counsellor assistance.

LEARNING PATHS IN SECONDARY CYCLE 2

As part of the Quebec Education Program (QEP), students going into Cycle 2 at the secondary level will have three options to choose from.

These paths aim primarily to increase student motivation, improve learning and decrease the student dropout rate by recognizing that students are not all the same, so a variety of paths are needed to respond to their individual needs and learning styles.

The three paths students will choose from are:

- 1. GENERAL EDUCATION PATH**
- 2. APPLIED GENERAL EDUCATION PATH**
- 3. WORK ORIENTED TRAINING/SEMI-SKILLED**

The first two paths lead to vocational training (DEP), college level studies or university. They do not prepare a student for immediate entry into the workplace other than to provide them with a high school leaving diploma. The third option (WORK ORIENTED-TRAINING PATH) is intended to give students practical training for the workplace, while pursuing general education courses adapted to their needs. In this option, students may enter the work market, or, in some cases continue, their studies in vocational or adult education.

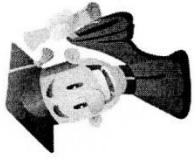
GENERAL AND APPLIED GENERAL EDUCATION PATHWAYS

For the most part, the GENERAL and the APPLIED EDUCATION paths offer the same subjects; English, French, Mathematics, History and Citizenship Education, Understanding the Contemporary World, one of the four arts subjects (Music, Dance, Visual Arts or Drama), Physical Education and Health, Ethics and Religious Culture. The differences between the APPLIED and GENERAL paths lie more in the teaching approach than in the actual content of the course.

The APPLIED Education Path differs from the GENERAL Education path with its two compulsory programs of study: the PERSONAL ORIENTATION PROJECT (POP) and the APPLIED SCIENCE AND TECHNOLOGY.

While students will choose an option course from a list of choices if they are in GENERAL path, students will be assigned the PERSONAL ORIENTATON PROJECT (POP) course as their option in the APPLIED path.

The Personal Orientation Project is a course that allows students to develop two core competencies; carrying out a process of career exploration and contemplating learning and possibilities through a series of self-directed activities and experiences.



Success lead to a DVS Diploma of Vocational Studies

Success can lead to double diploma: SSD and DVS

Successfully completes all requirements in sec 4 and 5

Choose Concomitance in order to complete secondary and vocational training at the same time (must be 16 years old)

Choose the Applied Education Path with Hands-on Sciences in sec 3-4 and Personal Orientation Project required course in sec 3

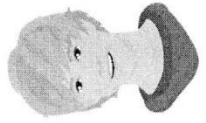
Stay in General Education Path with optional courses

Successfully completes all requirements in sec 4

Successfully completes competencies in sec 3 with support (Math, ELA and FSL). Student has repeat one year.

Successfully completes cycle one (year one and two) in ELA, Math and FSL

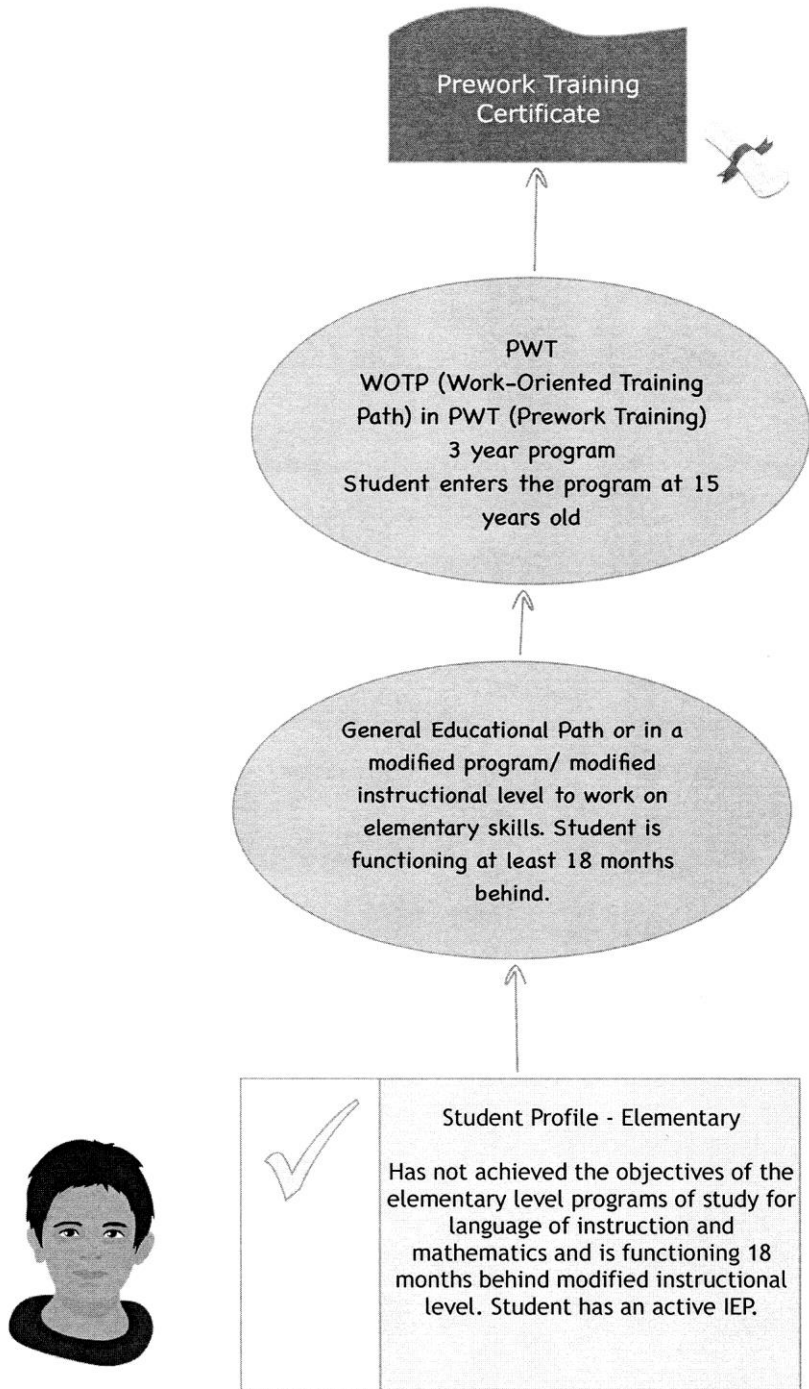
General Education Path



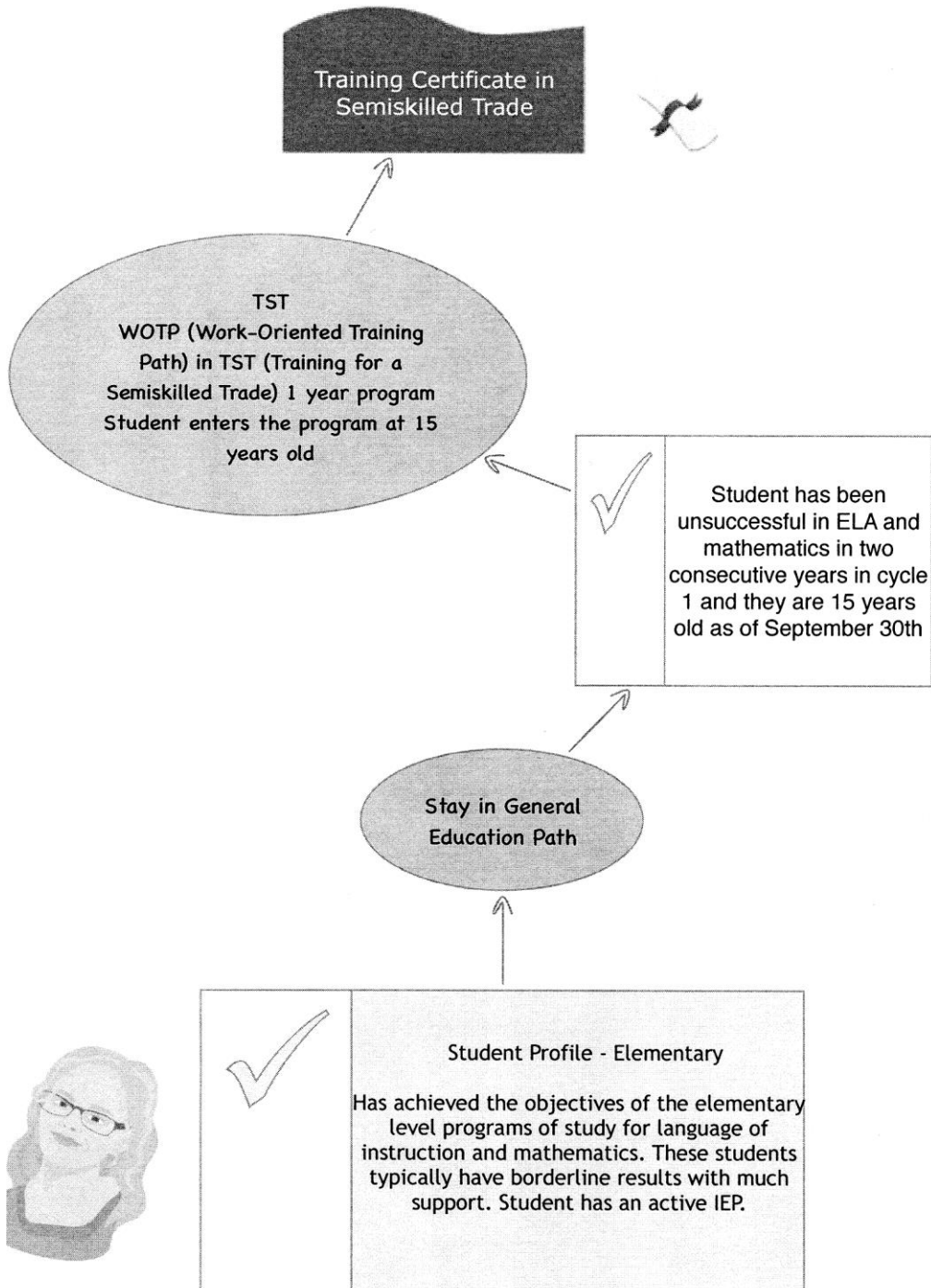
Student profile - Elementary Successfully completes competencies in ELA, Math & FSL in cycle 3

SSD Secondary School Diploma

WORK ORIENTED TRAINING PATHWAY



SEMI-SKILLED TRADES PATHWAY





SECONDARY 3

OPTION FORM INSTRUCTIONS

On the **REVERSE** of this Form:

A. All students must choose a 2 PERIOD arts option.

B or C. Please choose ONE Pathway by checking the corresponding box.

APPLIED GENERAL EDUCATION PATHWAY: assigned P.O.P. 606304

GENERAL EDUCATION PATHWAY: assigned READING 614342

D. Please check this box if you are interested in following the Work Oriented Training Pathway.

All student placements are re-evaluated in June, pending final results.

Your first choice is always given when possible. Courses with an enrolment of less than 25 may be cancelled.

Alternates are considered FIRM commitments.

Students who fail to return forms will be assigned their option courses.

Please sign and return these forms by MARCH 18, 2015.

A. 2 Period Arts Options: Number courses below from 1 to 4 in order of preference.

668302 VISUAL ARTS	<input type="checkbox"/>
669302 MUSIC	<input type="checkbox"/>
670302 DRAMA	<input type="checkbox"/>
672302 DANCE	<input type="checkbox"/>

B. Please check this box if you are interested in following the APPLIED GENERAL EDUCATION PATHWAY

You are assigned:
557306 APPLIED SCIENCE & TECHNOLOGY
606304 PERSONAL ORIENTATION PROJECT

OR

C. Please check this box if you are interested in following the GENERAL EDUCATION PATHWAY

You are assigned:
555306 GENERAL SCIENCE & TECHNOLOGY
614342 READING

OR

D. Please check this box if you are interested in following the WORK ORIENTED TRAINING PATHWAY

SCIENCE PATHWAY DESCRIPTIONS

GENERAL EDUCATION PATHWAY

SCIENCE & TECHNOLOGY

555306

This course is an introduction to science that uses the concepts in the living, material, technological worlds and earth and space to address *The Human Organism*. With the physical and psychological changes they are undergoing, students need to gain a better understanding of the human body.

READING

614342

This course seeks to solidify literacy skills across the curriculum. From analyzing documents to recognizing main ideas, students will complete a number of exercises through a common topic (eg, forensic science, Italian, economics, marketing and advertising etc.)

* Topics for this course are still under consideration

APPLIED GENERAL EDUCATION PATHWAY

APPLIED SCIENCE & TECHNOLOGY

557306

This course is an introduction to science that uses the concepts in the living, material and technological worlds to address *The Human Organism*. With the physical and psychological changes they are undergoing, students need to gain a better understanding of the human body. Evolution and the solar system are not used to address the body; however a greater focus is given to the technological world.

PERSONAL ORIENTATION PROJECT

606304

This course is a mandatory requirement if following the Applied General Pathway.

The Personal Orientation Project is a course that allows students to explore various fields of interest through hands-on activities designed to help students discover their personal profiles (values, interests, aptitudes) and identify career opportunities. Through the use of specialized career “tool kits” and other activities, students will embark on a journey of self-discovery focused on their futures.

MATHEMATICS

Mathematics in secondary III draws upon the knowledge acquired in cycle I to continue exploring key areas of mathematics. The secondary III course will cover the content outlined below:

ARITHMETIC and ALGEBRA

- Real numbers: rational and irrational
- Inequality relations
- Relations, functions and inverses
- Manipulating numerical and algebraic expressions
- Analyzing algebraic situations

STATISTICS and PROBABILITY

- Discrete random variable and continuous random variable
- Interpreting probability data and making decisions related to the data
- One variable distributions
- Analyzing situations involving one variable distributions
- Making decisions related to one variable distributions

GEOMETRY

- Solids
- Analyzing situations involving the properties of figures and solids

Not being successful in this course puts your child at risk of not having the knowledge and understanding necessary to pass Secondary IV Math. Credits in Secondary IV Math are necessary for graduation.

2 PERIOD ARTS OPTIONS

DANCE

672302 (Mandatory Dance T-Shirt and footwear)

Secondary 3 Dance is an extension of the Secondary 2 course. Students at this level will begin to develop stronger dance and choreography skills. In addition to learning, creating and performing dances, students will gain confidence, develop leadership skills, and stay in shape. This is a challenging class both physically and mentally. Students that choose dance must be ready to be active throughout each session.

Sitting down or choosing not to participate is not an option! Cell phones are prohibited.

If the class proves to be productive throughout the year they will perform in our May production, **Kaleidoscope**.

DRAMA

670302 NOTE: There will be a user fee attached to this course.

You will be actively exploring Performing Arts with a focus on acting while exploring other technical theatre responsibilities. You will continue to use movement and voice in theatre in various theatre games. 'Improv' rules and performance strategies will be expanded to include tournament play. You will create different characters, write and perform short scenes as well as larger projects that include technical sound and light design. Performances will take place in front of the teacher, class and live audiences.

MUSIC

669302 NOTE: There will be a user fee attached to this course.

Secondary 3 music will continue musical theory with both reading and writing musical notation, tablature, and chord charts. Previous study of contemporary music will be developed into original compositions to be performed both solo and in groups. Live performances will take place in front of their teacher, class, and live audiences.

VISUAL ARTS

668302 NOTE: There will be a user fee attached to this course.

In the visual arts course, students will be involved in three basic activities during the year: they make artworks based on their own ideas, they create artworks intended to communicate ideas, and they learn to appreciate works of art made by others. In Secondary III, this last area of interest, appreciating works of others, the topic will be Canadian Art of the past and present.

Students will continue exploring various media, including drawing, painting, printmaking, photography and clay. Students will also be encouraged to participate in special projects and an end-of-year art exhibition.

➤ **SECONDARY 4**

OPTION FORM INSTRUCTIONS

On the **REVERSE** of this Form:

- A. Please choose ONE Math course by checking the corresponding box.
- B. All students must choose a 2 PERIOD Arts option.
- C. Please choose ONE Pathway by checking the corresponding box.

APPLIED GENERAL EDUCATION PATHWAY:

Students will be assigned Applied Physical Science (557416) at 6 periods; History & Citizenship (587404) at 6 periods.

GENERAL EDUCATION PATHWAY:

Students will be assigned Environmental Science & Tech. (558404) at 4 periods; History & Citizenship (587404) at 4 periods.

Students who wish to change Pathways must meet with a Guidance Counsellor before this change can be made.

Students planning on taking Chemistry and/or Physics in Secondary 5 **MUST** take the General Education Pathway with Environmental Science & Tech. (558404) in order to meet course requirements.

Your first choices are always given when possible. Courses with an enrolment of less than 25 may be cancelled.

All student placements are re-evaluated in June, pending final results.

Alternates are considered firm commitments.

Students who fail to return forms will be assigned their option courses.

Please sign and return these forms for MARCH 18, 2015.

Note: Students who choose the Science Math course will be required to attend a mandatory information session in May before their choice can be finalized. Please check the box beside your selection to acknowledge you will attend.

A. MATH PROGRAMS - Please choose your Math course preference

- | | |
|--|--------------------------|
| 563414 MATHEMATICS: CULTURAL, SOCIAL & TECHNICAL | <input type="checkbox"/> |
| 565426 MATHEMATICS: SCIENCE | <input type="checkbox"/> |

In choosing the Science Math course you will be required to attend a mandatory information session in May before your choice can be finalized. Please check this box to acknowledge you will attend.

B. 2 Period Arts Options: Number courses below from 1 to 4 in order of preference.

- | | |
|--------------------|--------------------------|
| 668402 VISUAL ARTS | <input type="checkbox"/> |
| 669402 MUSIC | <input type="checkbox"/> |
| 670402 DRAMA | <input type="checkbox"/> |
| 672402 DANCE | <input type="checkbox"/> |

C. Please choose a Pathway: (General Education OR Applied General Education)

GENERAL EDUCATION PATHWAY

Recommended for students who wish to take Chemistry or Physics in Secondary 5.

You are assigned:

555444 SCIENCE & TECHNOLOGY
(4 Periods)

Please check if you wish to take Science & Technology (055444) and History & Citizenship (087404) in French.

558404 ENVIRONMENTAL SCIENCE & TECHNOLOGY
(4 Periods)
(Required if taking Chemistry &/or Physics in Sec. 5)

587404 HISTORY AND CITIZENSHIP
(4 Periods)

APPLIED GENERAL EDUCATION PATHWAY

You are assigned:

557416 APPLIED SCIENCE & TECHNOLOGY
(6 Periods)

587404 HISTORY AND CITIZENSHIP
(6 Periods)

SCIENCE PATHWAY COURSE DESCRIPTIONS

GENERAL EDUCATION PATHWAY

SCIENCE & TECHNOLOGY

555444

This is a survey course of the whole world of science including chemistry, earth sciences, life sciences, and technology. This is the basic level science class needed for a DES.

ENVIRONMENTAL SCIENCE & TECHNOLOGY

558404

NOTE: This course is a prerequisite for Chemistry and/or Physics in Secondary 5 & must be taken with Science & Technology

The content draws heavily from chemistry, physics and biology. Students need a strong math background to succeed in this course. For students interested in pursuing a science pathway, this course is an introduction that will help you make an informed decision on your ability and desire to take chemistry or physics.

APPLIED GENERAL EDUCATION PATHWAY

APPLIED SCIENCE & TECHNOLOGY

557416

This is a survey course of the whole world of science including earth sciences, life sciences, with a heavy focus on technology. As there are 6 periods, students have more time to complete building construction projects especially in the technology section. This is the basic level science class needed for a DES.

OVERVIEW OF MATHEMATICS COURSES IN CYCLE II

Choices in Mathematics

In secondary IV, students must choose a mathematics program. Massey-Vanier offers two math courses to secondary IV students. A student's choice in secondary IV mathematics should correspond with his/her future aspirations, an interest and strength in math, usually based on secondary III math results.

The table below gives a brief comparison of the two courses.

<u>CULTURAL SOCIAL AND TECHNICAL</u>	<u>SCIENCE</u>
Prepares students more specifically for studies in the arts, communications, the humanities and the social sciences. Gives access to professional trade training.	Prepares students more specifically to pursue their studies in pure sciences or to perhaps eventually specialize in research
Helps students build on their knowledge of basic mathematics	Mainly aims at developing concepts and processes inherent to algebra and geometry, while examining statistics as it relates to functions
Emphasizes situations that students will encounter in their personal and professional lives related to health, the environment, consumerism or the media	Emphasizes the students' ability to develop their capacity for abstract thinking and analyzing theoretical models

Please keep in mind that the SN IV math option is very challenging. Students who have not displayed a good work ethic or students who require more time to synthesize new material will struggle in this course. Students who have an end of year math average of less than 75% in secondary III tend not to be successful in SN IV math.

2 PERIOD ARTS OPTIONS (BOTH PATHWAYS)

DANCE

672402 (Mandatory Dance T-Shirt and footwear for every class)

Secondary 4 Dance is an extension of the Secondary 3 course. Students at this level will begin to develop stronger dance and choreography skills. In addition to learning, creating and performing dances, students will gain confidence, develop leadership skills, and stay in shape. This is a challenging class both physically and mentally. Students that choose dance must be ready to be active throughout each session.

Sitting down or choosing not to participate is not an option! Cell phones are prohibited.

If the class proves to be productive throughout the year they will perform in our May production, **Kaleidoscope**.

DRAMA

670402 NOTE: There will be a user fee attached to this course.

You will be actively exploring Performing Arts with a focus on acting while exploring other technical theatre responsibilities. You will refine the use of movement and voice in theatre in various theatre games and live performances. 'Improv' rules and performance strategies will include tournament play. You will create different characters, write and perform short scenes as well as larger projects that include technical sound and light design. Interpretation of written scripts will be performed in front of the teacher, class and live audiences.

MUSIC

669402 NOTE: There will be a user fee attached to this course.

Secondary 4 music will challenge students to incorporate previous musical theory study and song composition to create original musical performances that will be recorded. The songs will require musical skills developed over the previous years on their chosen instrument(s). The recordings will be compiled onto a CD and presented to a panel of music industry professionals for feedback and support.

VISUAL ARTS

668402 NOTE: There will be a user fee attached to this course.

In the visual arts course, students will be involved in three basic activities during the year: they make artworks based on their own ideas, they create artworks intended to communicate ideas, and they learn to appreciate works of art made by others. In Secondary IV this last area of interest, appreciating works of others, the topics will be the Impressionists and early 20th century modernist art.

Students will continue exploring various media that may include drawing, painting, printmaking, photography and clay. Students will also be encouraged to participate in special projects and an end-of-year art exhibition.

The level four art program will concentrate on various media in drawing, painting and sculpture.