

ADDITIONAL RESOURCES:

TDSB's Math: We can help!

<http://www.tdsb.on.ca/High-School/Your-School-Day/Curriculum/Mathematics>

EQAO practice materials:

<http://www.eqao.com/en/assessments/grade-9-math/Pages/example-assessment-materials-current-year.aspx>

Ministry of Education— Leading Math Success materials:

<http://www.edu.gov.on.ca/eng/studentsuccess/lms/library.html#family>

Ministry of Education “Important information in many languages” web page, where some key resources are translated into several languages:

<http://www.edu.gov.on.ca/eng/parents/multiLanguages.html>

Mathies

<http://www.mathies.ca/>

Inspiring Your Child to Learn and Love Math

(Ideally for students in grade 2 to 8 but they have resources/links which may be useful)

http://www.ontariodirectors.ca/parent_engagement-math/en/index.htm

NRICH enriching mathematics

<https://nrich.maths.org/>

Mathematics Program at Dr. Norman Bethune C.I.



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We make learning count!

<http://www.bethuneci.com/departments/math/>

The Bethune Mathematics Department is committed to providing students with a strong foundation and understanding of mathematics that will help them to achieve success both now and in the future. Opportunities are provided to students through the regular curriculum as well as through a wide variety of extra-curricular activities for their enrichment.

Calculator Policy

Only teacher approved scientific calculators may be used in course evaluations. The following is a list of some of models which are **NOT** approved.

- Casio—any **natural display** models
- Sharp—any **Writeview** models
- Canon— any **Textbook Display** models
- Texas Instrument—any **Multiview or Pro** models

Graphing and programmable calculators, smartphones, tablets and notebooks are not allowed.

Math Enrichment

There are many opportunities for students to participate in activities to enhance their math skills and to communicate their understanding. Students can participate in mathematic competitions and join the math club.

Math Remediation

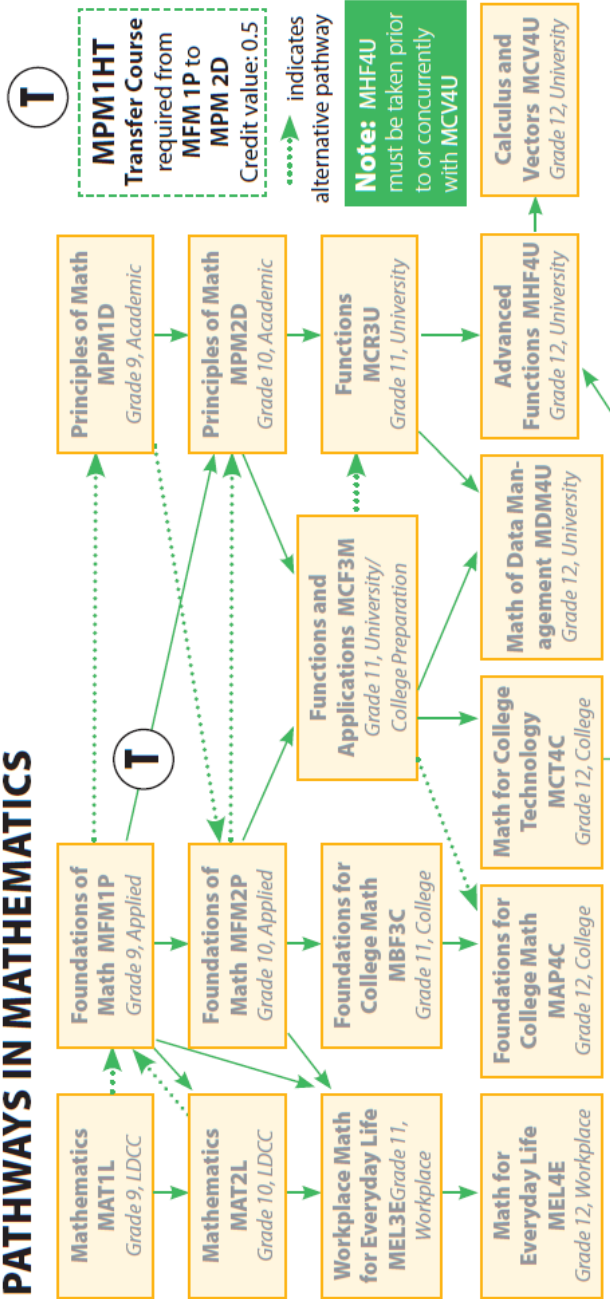
Every effort is made to assist students who may be experiencing difficulty in math. All math teachers are available for extra help. In addition, there is:

- **Bethune Math Mentors**—a lunchtime program where students can drop in for extra help and work on their math skills with senior Bethune math students
- An **Afterschool Numeracy Program**, where students receive grade specific help from teachers in a smaller group setting to address numeracy skills necessary for success in their math courses.
- **Homework Help:** A free online tutoring service available to all Grade 9 & 10 students. (<http://homeworkhelp.ilc.org/>)

Math Club

A student run club for those who are interested in challenging math problems & puzzles, contests, recreational mathematics and games.

PATHWAYS IN MATHEMATICS



COURSE TYPES:

Grades 9-10

Applied (Grades 9 and 10)

- Cover the core content and have an emphasis on concrete and practical learning

Academic (Grades 9 and 10)

- Cover the core content and have an emphasis on theoretical and conceptual learning

Locally Developed Compulsory Credit (Grades 9 and 10)

- For students with gaps in knowledge and skills in a specific discipline

Transfer (Grade 9)

- Enables students to achieve the expectations not covered in one course type, but required for entry into a course in the next grade
- Currently, the only transfer course available is in Mathematics which is required to change from Grade 9 Applied Mathematics to Grade 10 Academic. Is taken as a summer school course

Grades 11-12

College Preparation Courses (Grades 11 and 12) – ‘C’ course

- Provide students with the knowledge and skills needed to meet entrance requirements for most college programs
- Emphasis is on concrete applications of the theoretical material covered in the course and development of critical thinking and problem-solving skills
- Focus on the development of independent research skills and independent learning skills

University Preparation Courses (Grades 11 and 12) – ‘U’ courses

- Provide students with the knowledge and skills needed to meet entrance requirements for university study
- Emphasis on theoretical aspects of the course content, with supporting applications
- Courses will focus on the development of both independent research skills and independent learning skills

University/College Preparation Courses (Grades 11 and 12) – ‘M’ courses

- Include content that is relevant for both university and college programs
- Provide students with knowledge and skills needed to meet entrance requirements for specific university and college programs
- Emphasis on both theoretical aspects and related concrete applications of the course content

Workplace Preparation Courses (Grades 11 and 12) – ‘E’ courses

- Prepare students to move directly into the workplace or to be admitted to apprenticeship or other training programs in the community
- Emphasis on practical workplace skills

Ontario Secondary School Diploma Requirements

- Successful completion of literacy requirement
- 40 hours of community involvement
- 30 credits: (18 compulsory and 12 optional)
 - 4 English, one per grade level
 - 1 French as a second language
 - 3 Mathematics, at least one in Grade 11 or 12
 - 2 Science
 - 1 Canadian geography
 - 1 Canadian history
 - 1 Arts (dance, drama, media, music, visual arts)
 - 1 Health and physical education
 - 0.5 Civics
 - 0.5 Career studies

Plus one credit from each of the following groups:

- Group 1:** an additional English credit
 or French as a second language*
 or a third language
 or a Social Sciences and Humanities credit
 or a Canadian and World Studies credit
 or a Guidance and Career Education credit
 or a Cooperative Education credit *
- Group 2:** a Business Studies credit
 or a credit in Health and Physical Education
 or a credit in the Arts
 or a credit in Cooperative Education*
 or French as a second language*
- Group 3:** a Grade 11 or 12 Science credit
 or a Technological Education credit
 or a Computer Studies credit
 or a Cooperative Education credit*
 or French as a second language*

plus 12 optional credits

* A maximum of two credits in Cooperative Education and two credits in French can count as compulsory credits.