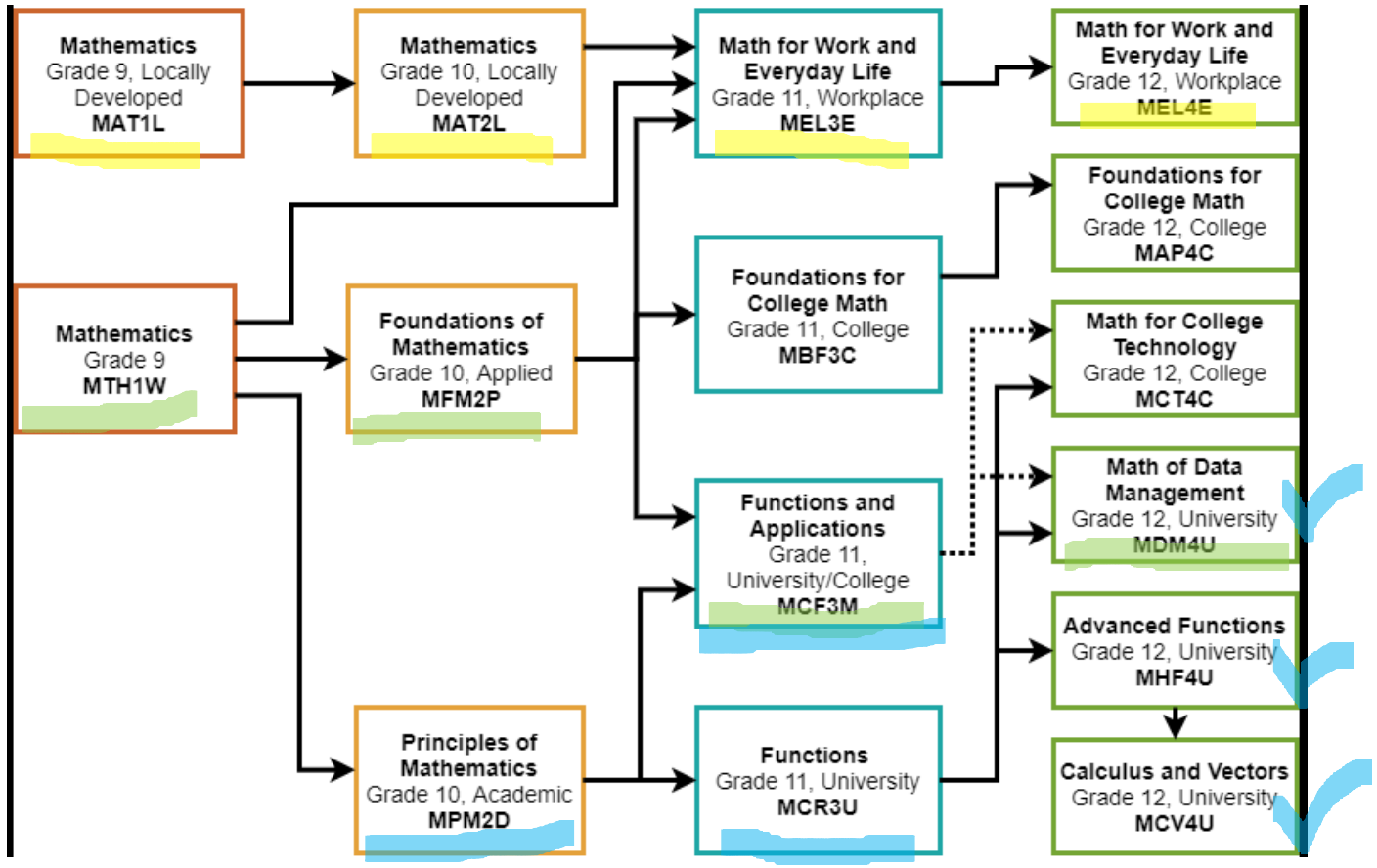
Corpus Christi

Mathematics

The Math Program at Corpus Christi

Math Courses and Pathways



Grade 9 Math Courses

- **MTH 1W**- Grade 9 Math – Mathematics for Work and Home - intended for all Grade 9 students who are pursuing courses leading to a College or University Pathway
- **MAT 1L** – Locally Developed Course - intended for all Grade 9 learners who are looking for a slower paced, small class size and daily one on one support and who are pursuing future courses leading to a College or Apprenticeship Pathway
- Our Grade 9 program focuses on building on the following skills which were introduced in elementary school: Integers, Fractions, Equations (Simple), Order of Operations, Calculator use, Algebra
- There is no current textbook for this course, but our wonderful math teachers are working collaboratively to design worksheets for this course to support students learning.

EQAO MATH ASSESSMENT

- EQAO will run this Quadmester after October 1st and every other Quadmester towards the end.
- Parents will receive information about the dates when the practice test and the actual test will occur.
- The test will be administered online, for students present in the building only.
- This Assessment will have two parts. All students will complete the first part of the EQAO test and based on their answers on this part, they will be directed to take a second part corresponding to their level of math ability
- Teachers are already providing EQAO type questions and discussing tips for success during every unit of study
- Students will have the opportunity to complete a Practice Test once it is made available on the EQAO website.

Grade 10 Math Courses

- **MFM 2P - Grade 10 Applied Math** – intended for students looking for a slower paced, small class size course that can offer the choice of a College Pathway or a University Pathway (for a program where only one Grade 12 University course is required)
  - There is a misconception that students taking this course will not be able to apply for a University Program
  - Students can take this course, followed by Grade 11 University/College Mixed course and Grade 12 Data Management (University Course). This pathway can lead into a University Program that requires less math.
- **MPM 2D – Grade 10 Academic Math** - intended for students who are aiming for a University Pathway involving mathematics.
  - Students who are successful in Grade 10 Academic can then take the Grade 11 University course followed by any number of the Grade 12 University courses (Advanced Functions, Data Management and Calculus)
- **MAT 2L – Grade 10 Locally Developed Math** – intended for students who continue with the Grade 11 and 12 Mathematics for Everyday Life course. Students taking these courses are following a College or Apprenticeship post secondary pathway.
- Our Grade 10 program will focus on building on the following skills: Systems of Equations, Analytic Geometry, Quadratics and Trigonometry
- **The textbook used:** Principles of Mathematics 10 - Grade 10 Academic, Foundations of Mathematics – Grade 10 Applied, Workbook – Locally Developed

Grade 11 Math Courses

- **MBF 3C- Grade 11 College Math**– intended for students looking for a slower paced, small class size course that can offer the choice of a College Pathway
- **MCF 3M – Grade 11 College/ University Mixed** - intended for students who are aiming for a College or University Pathway
  - Students can take this course, followed by the Grade 12 College course or Grade 12 Data Management (University Course) if they want to apply to a University Program that requires less math.
- **MCR 3U – Grade 11 University** - intended for students who are aiming for a University Pathway involving mathematics.
  - Following this course students can take any of the Grade 12 University courses (Advanced Functions, Data Management and Calculus)
- **MEL 3E – Grade 11 Mathematics for Everyday life**– intended for students who continue with the 12 Mathematics for Everyday Life course. Students taking these courses are following a College or Apprenticeship post secondary pathway
- Our Grade 11 program will focus on building on the following skills: Functions (polynomial, exponential, quadratic, sinusoidal), Financial Problems and Trigonometry
- **The textbook used: MCF 3C –** Grade 11 College Math, **MBF 3M –** Functions and Applications 11, **MCR 3U –** Functions 11, **MEL 3E -** Workbook

Grade 12 Math Courses

- **MAP 4C- Grade 12 College Math**– intended for students looking for a slower paced, small class size course that can offer the choice of a College Pathway
- **MDM 4U – Grade 12 Data Management** - intended for students who are aiming for a University Pathway
  - Student can have MCR 3U or MBF 3M as a prerequisite for this course
- **MHF 4U – Grade 12 Advanced Functions** - intended for students who are looking for a University Pathway involving mathematics.
  - Following this course students can take Grade 12 Calculus
- **MCV 4U – Grade 12 Calculus** - intended for students who are applying to a University Program involving mathematics.
- **MEL 3E – Grade 11 Mathematics for Everyday life**– intended for students who continue with the 12 Mathematics for Everyday Life course. Students taking these courses are following a College or Apprenticeship post secondary pathway
- Our Grade 11 program will focus on building on the following skills: Functions (polynomial, exponential, quadratic, sinusoidal), Financial Problems and Trigonometry
- **The textbook used: MCF 3C –** Grade 11 College Math, **MBF 3M –** Functions and Applications 11, **MCR 3U –** Functions 11, **MEL 3E –** Workbook

Assessment and Evaluation

- Students' work will be assessed on an ongoing basis in all math courses. This will allow teachers to learn where students are in their learning and how to adjust their own teaching practices.
- Students will be evaluated on the Math curriculum course content
- The evaluation will be based on the four Achievement Chart Categories of Knowledge (K), Thinking (T), Communication (C), and Application (A).
- Students can expect that the evaluation may be in the form of Chapter tests, Quizzes, Assignments, Projects, Portfolios. However, each type of evaluation may be comprised of four categories of K, T, C, A, as per board policy.
- The final evaluation will consist of a Culminating Assignment representing 30% of the final mark

FINAL NOTE

- Mathematics is a fascinating and difficult subject, and in order to experience success, students should:
    a. remember to prepare well for any assignment, test, quiz or culminating activity
    b. celebrate mistakes as an opportunity to learn
    c. complete math homework daily
    d. hand in their assignments on time
    d. take accurate and complete notes
    e. ask right always for help if they do not understand any concept
- With the help of each child's parent(s)/guardian(s) and teachers, we can work together to help students experience academic success in the area of mathematics.

More information

- We have also included few other slides to let you know how you can best ***support your child*** in learning mathematics during the beautiful high school years

How can I help my child with mathematics?

Talk about math in positive ways

I'm sure you will understand if you… Let's figure it out together.

I could never do the math either.
Don't worry about the math.

Source: Family and Community supports workshop - EduGains

Every child can learn math

MYTH

- Some people just can't do math.

FACT

- Every adult and every child can do mathematics.

Source: Family and Community supports workshop - EduGains

Understand that Emotions affect learning

Understanding adolescent learners

- When learners feel anxious, certain chemicals flow into the synapses to shut them down.
- Danger! No time to think! Just run away! This is the flight reaction = "run for your life!"
- Students (and teachers) mistakenly think they have poor memory, but, it is their emotions that are sabotaging them
- When learners feel confident, different chemicals flow into the synapses that make them work quickly and well:
- "I can handle this." = this is the fight reaction

Source: www.cvcc.edu/Resources/Learning_Assistance_Center/pdf/Understanding_How_the_Brain_Naturally_Learns.pdf

How can I encourage and support my child in math?

- Encourage your child to persevere through challenges
- Emphasize effort is as important than ability and discuss mistakes as learning opportunities
- Provide a quiet space to work
- Carve out dedicated time for homework
- Have tools and resources available at home
- Listen and ask questions instead of giving answers
- Engage in math-related home activities and games
- Communicate with the teacher if your child needs extensive help with homework