



# *Grade 10 Mathematics at CEC*

*Preparing for Success in High School and Beyond*

# Your Math choice Matters!

- Your Grade 10 math choice shapes your pathway for Grades 11 & 12.
- Consider both graduation requirements and careers and post-secondary plans.

## Graduation Requirement



Nova Scotia requires 3 math credits for graduation (one at each grade level).

## Careers / post-secondary plans.

### **University STEM Programs (Science, Technology, Engineering, and Math):**

*Academic or Pre-IB Math* in Grade 10.  

### **Workforce or Non-STEM University Programs:**

*Math at Work or Math Essentials.*   (*Academic Math* is also a common pathway for non-STEM university programs.)

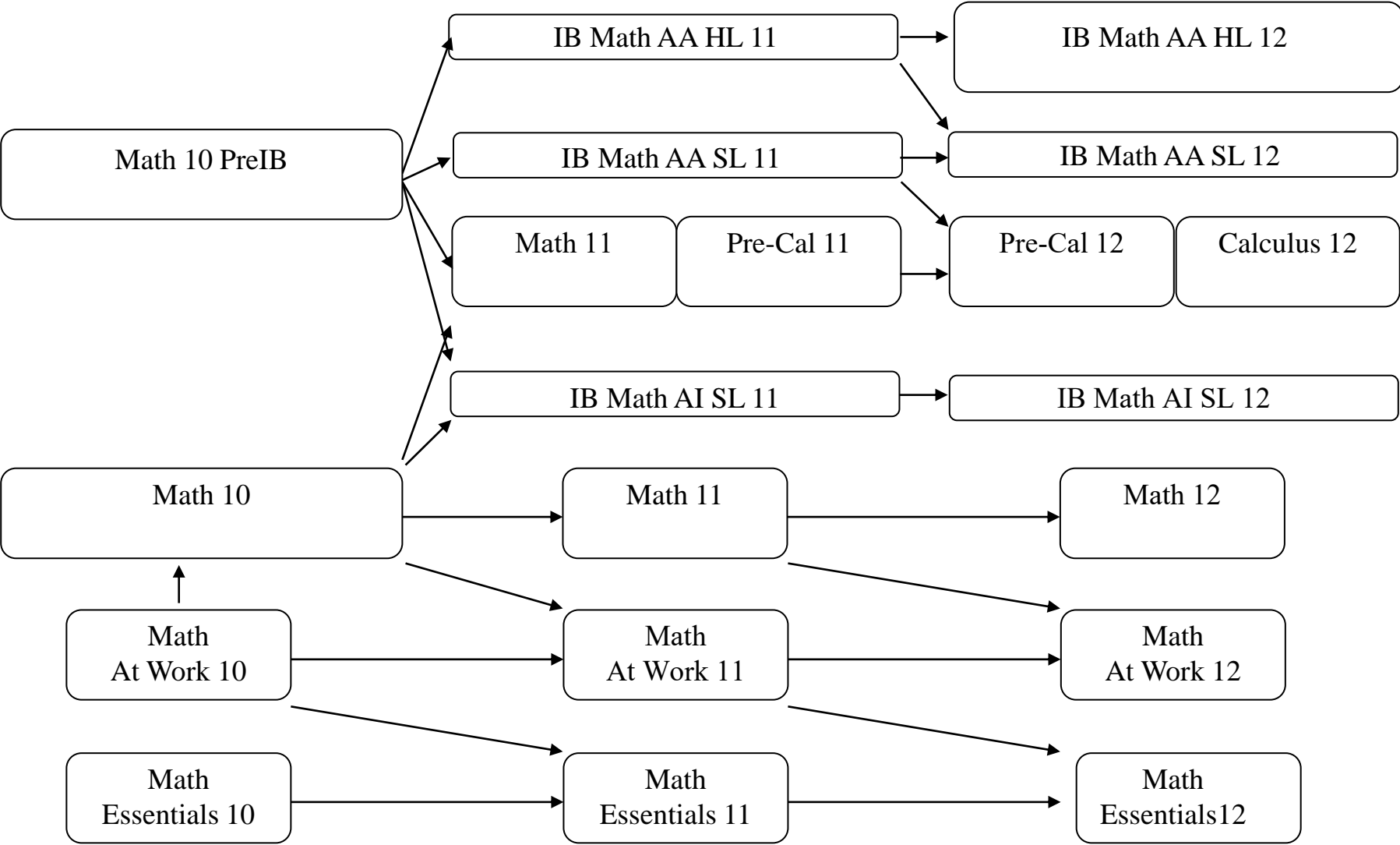
Many programs, such as University Journalism or English, accept *Math at Work* or *Math Essentials* for admission. Be sure to carefully check the specific admission requirements for your chosen program before you graduate.

| Course                    | Focus   | Credits  |
|---------------------------|---|--|
| <b>Pre-IB Math 10</b>     | <ul style="list-style-type: none"> <li>→ Accelerated Speed (grade 10 and 11 topics)</li> <li>→ Provincial Exam</li> <li>→ Regular Homework (30m daily)</li> </ul> | 2.5<br>1.5 Math<br>One "other"<br>(science/tech) |
| <b>Academic Math 10</b>   | <ul style="list-style-type: none"> <li>→ Develop proficiency in mathematics</li> <li>→ Provincial Exam</li> <li>→ Regular Homework</li> </ul>                     | 2<br>One Math<br>One "other"<br>(science/tech)   |
| <b>Math at Work 10</b>    | <ul style="list-style-type: none"> <li>→ Develop understandings and thinking skills relevant to various trades and professions</li> </ul>                         | 1 Math credit                                    |
| <b>Math Essentials 10</b> | <ul style="list-style-type: none"> <li>→ practical applications of math in everyday contexts</li> </ul>   | 1 Math credit                                    |

# Grade 10

# Grade 11

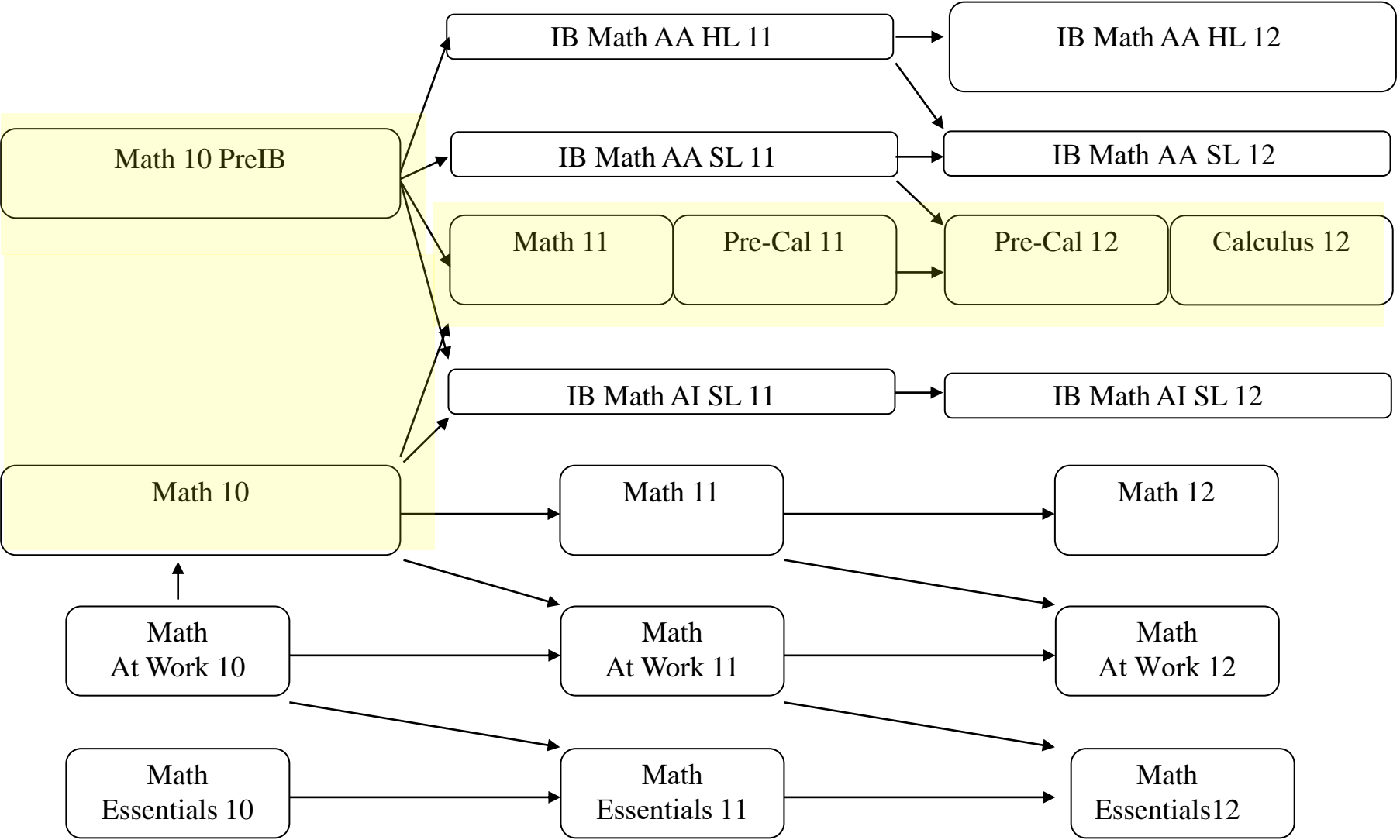
# Grade 12



# Grade 10

# Grade 11

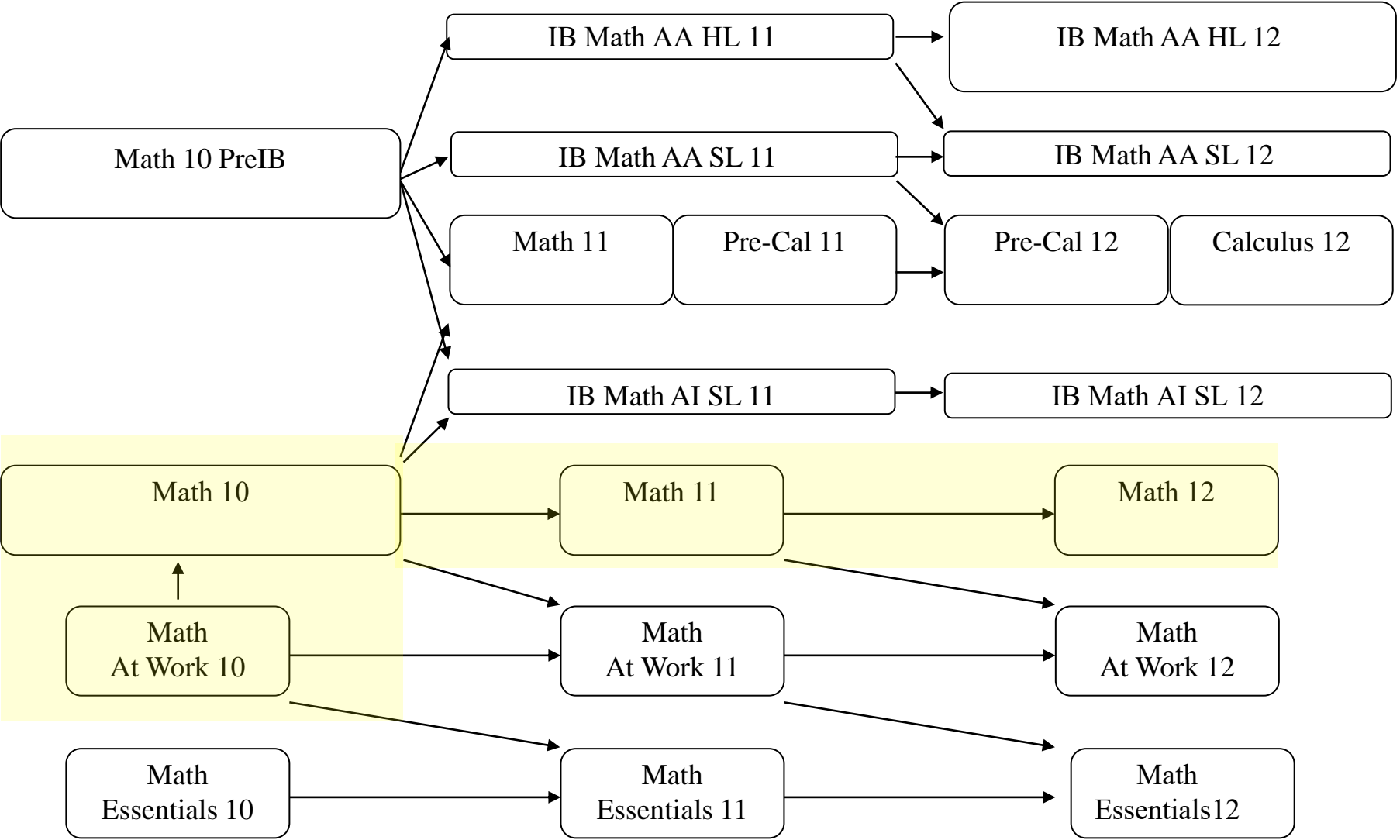
# Grade 12



# Grade 10

# Grade 11

# Grade 12





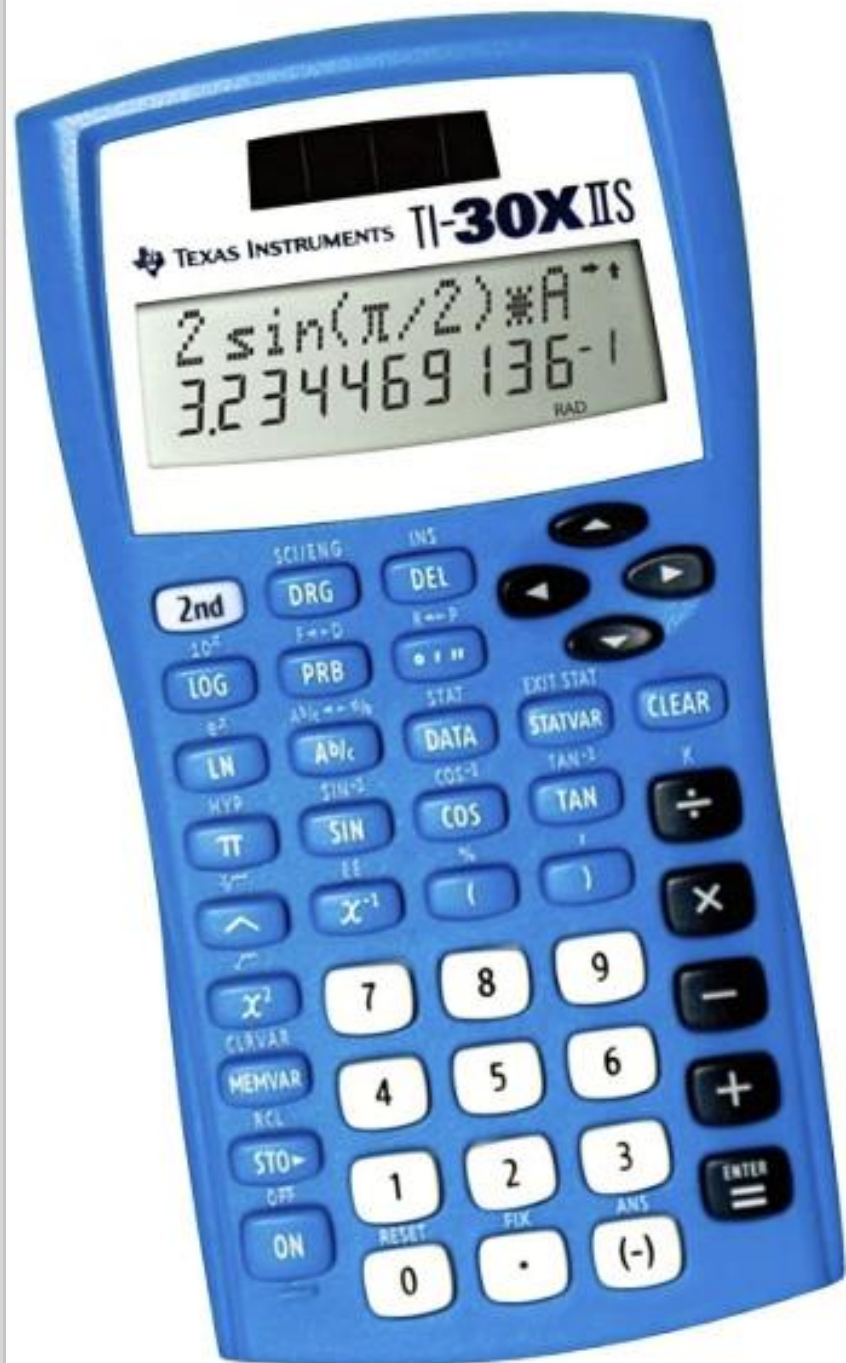
# Pre-IB Math 10

- **Focus:** Abstract mathematical concepts with a strong emphasis on algebra.
- **Who is it for?** Students who excel in Math 9 and have strong problem-solving skills.
- **Pace:** Fast-paced course covering all Math 10 topics plus additional content to prepare for advanced Grade 11 math.
- **Expectations:**
  - Homework every night (~30 minutes).
  - Full-year course with a Provincial Exam.
- **Is this for me?**
  - Planning to take Pre-Calculus? Pre-IB 10 is a great choice.
  - Students who complete Pre-IB 10 are well-prepared for Grade 11 and 12 math courses.
- **Key Topics:** Advanced algebra, geometry, Canadian Math Competition preparation.
- **Calculator:** TI-84 graphing calculator (available for sign-out).
- **Student Experience:**

*"I struggled at first, but I learned to problem-solve and ask for help!"*

# Academic Math 10

- **Focus:** Abstract math concepts, including algebra.
- **Who is it for?** Students with a solid understanding of Math 9 concepts, strong number sense, and algebra skills.
- **Expectations:**
  - Regular homework assignments.
- **Key Topics:** Trigonometry, polynomials, financial math.
- **Assessments:**
  - CEC Cumulative Exam (January).
  - Provincial Exam (June, 20% of final grade).
- **Calculator:** Scientific calculator required.







## Math at Work 10

- **Focus:** Practical, real-world math concepts with some challenge.
- **Who is it for?** Students who meet Math 9 outcomes but find abstract concepts like algebra difficult.
- **Relevance:** Covers math used in many skilled trades and technical programs.
- **Key Topics:** Trigonometry, budgeting, trades math.
- **Local Connection:** Aligns with NSCC Truro programs (e.g., carpentry, culinary arts).
- **Assessments:**
  - CEC Cumulative Assessment (No Provincial).
- **Calculator:** Should include trigonometry functions

# Math Essentials 10

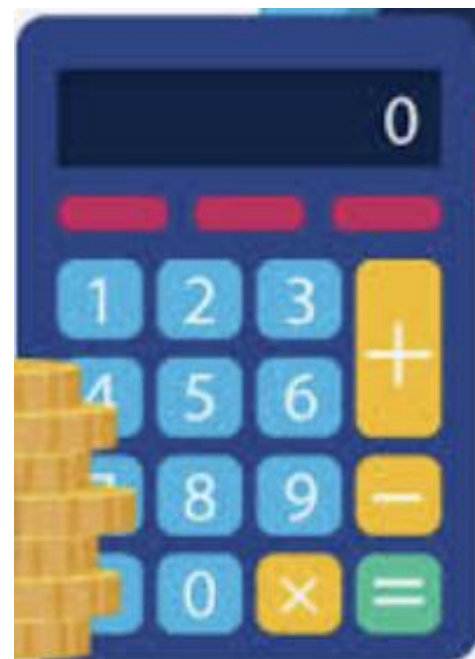
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- **Focus:** Basic math skills with a practical, real-world approach.

**Who is it for?** Students who struggled significantly with Math 9 and need a fresh start.

**Expectations:** No exam.

- Focus on foundational skills for everyday life and careers without math prerequisites.
- **Key Topics:** Taxes, budgeting, probability.
- **Student Experience:**  
*“Math Essentials gives students a fresh start to build confidence.”*



# Deciding Between Options?

## Pre-IB Math 10 vs. Academic Math 10

- Do you enjoy challenging, abstract math and problem-solving?
- Are you planning to take Pre-Calculus in Grade 11?
- Can you commit to a fast-paced course?

## Math at Work 10 vs. Academic Math 10


- Are you interested in practical, real-world math applications?
- Does your future path require academic math, or is Math at Work a good fit?

## Math Essentials 10 vs. Math at Work 10

- Do you need a fresh start with math?



### • Key Considerations

- Challenge yourself!
- Be ready to put in the time.
- Think about your future goals.
-  **Remember:**
- Teachers are approachable and here to help!
- Math at Work **doesn't** close doors—upgrading options are available if needed.

# Questions to Ask Before Deciding

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## **What are my career or post-secondary plans?**


- Do I need a specific math course for my future goals?
- Am I planning to attend university, college, or enter the workforce?

## **Am I experiencing success in Math 9?**

- Do I have a solid understanding of current math concepts?
- Am I comfortable with problem-solving and algebra?

## **Am I prepared for homework and problem-solving?**

- How much time am I willing to commit to daily practice?
- Do I work well independently and ask for help when needed?

 **"Choose a course where you'll be appropriately challenged and successful."**

# Myth-Busting



**Myth:** “Math at Work/Essentials are ‘easy’ classes.”

**Fact:** They teach critical skills for trades and everyday life.



**Myth:** “Pre-IB requires IB enrollment.”

**Fact:** Pre-IB is a standalone course—no IB commitment!

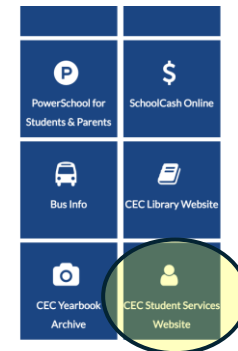


## Questions and Next Steps

- Discuss options with your **Grade 9 math teacher**.
- Visit the **CEC Student Services website** for course guides.

If you take a course that you are finding too difficult, CEC can not guarantee that you will be moved to a more appropriate level. **Space is limited.**

about Exam/Culminating



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