

What to Consider When Choosing a Math 20 Pathway

A Guide for Students and Parents



Why are the secondary level mathematics courses changing?

- Extensive research indicated that the previous mathematics program was not effectively meeting the needs of all students.
- The new math program is based on collaborative efforts of the seven western and northern Canadian jurisdictions (Western and Northern Canadian Protocol). The mathematics courses will be consistent among these jurisdictions (BC, AB, SK, MB, NWT, YK, NU).
- The new programs reflect current research and best practices.



What is new?

Courses and pathways are defined by the mathematics that business, industry, and post-secondary institutes indicated that students need.



What is new?

Courses are based upon interest and need rather than perceived ability.



What is new?

Targeting student future pursuits and interests increases student learning and understanding.



What is new?

All courses and pathways expect the same level of rigour and deep understanding.



The Pathways Explained

Workplace and Apprenticeship Mathematics

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into ***the majority of trades and for direct entry into the work force.***



The Pathways Explained

Workplace and Apprenticeship Mathematics

Topics included measurement, geometry, trigonometry, financial math (number sense), algebra, statistics and probability.



The Pathways Explained

Foundations of Mathematics

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that ***do not require the study of theoretical calculus.***



The Pathways Explained

Foundations of Mathematics

Topics include financial mathematics, geometry, measurement, number sense, logical reasoning, relations and functions, statistics and probability.



The Pathways Explained

Pre-calculus

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that

require the study of theoretical calculus.



The Pathways Explained

Pre-calculus

Topics include algebra and number sense, measurement, relations and functions, trigonometry, and permutations, combinations and binomial theorem.



Graduation Requirements

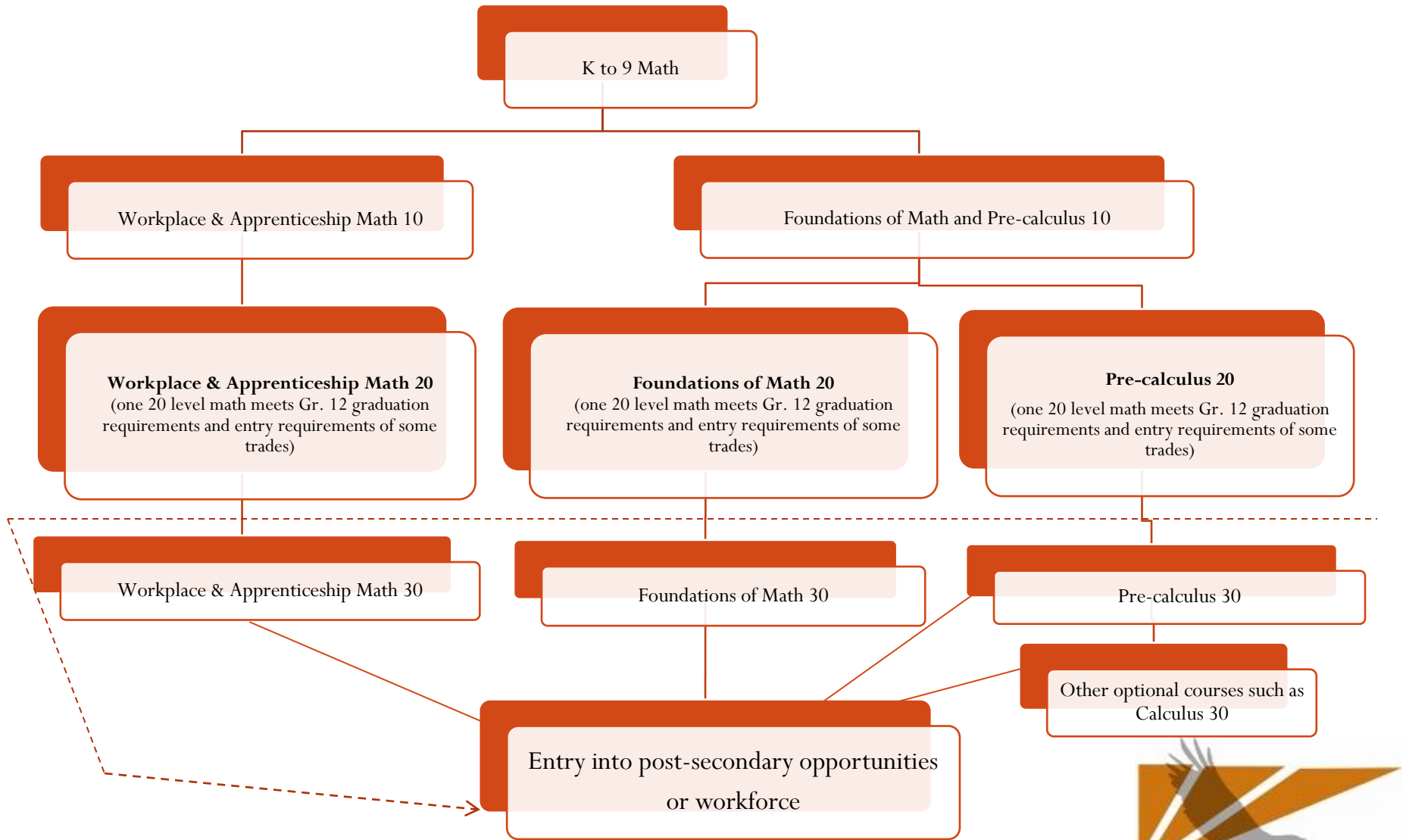
To graduate, students must complete a Grade 11 mathematics course.

You might need more than one math course if you plan to continue school beyond Grade 12. Students and parents are encouraged to research the admission requirements for post-secondary programs of study as they vary by institution and by year.

For specific program requirements, please contact the specific institution of interest.



The Pathways



Post-Secondary Requirements

University of Saskatchewan – *Example Summary*

ADMISSION AVERAGE CALCULATION

One of Foundations of Mathematics 30, Pre-Calculus 30 or Calculus 30

AGRICULTURE AND BIORESOURCES

Foundations of Mathematics 30 or Pre-Calculus 30

ARTS AND SCIENCE

Foundations of Mathematics 30 or Pre-Calculus 30

EDUCATION (DIRECT ENTRY PROGRAMS ONLY)

Foundations of Mathematics 30 or Pre-Calculus 30

EDWARDS SCHOOL OF BUSINESS

Pre-Calculus 30 (recommended) or Foundations of Mathematics 30

ENGINEERING

Pre-Calculus 30 and Calculus 30 (at least 70% average in both)

KINESIOLOGY

Foundations of Mathematics 30 or Pre-Calculus 30

*It is the responsibility of the student and parents to check course and entrance requirements with specific post-secondary institutions of interest to them.



Post-Secondary Requirements

Since entrance requirements are set by the post-secondary institutions and not the school division, they are beyond our control and may be subject to change.

It is the responsibility of the student and parents to check course and entrance requirements with specific post-secondary institutions of interest to them.

It is our intent to provide families assistance in locating these requirements.



What to Consider When Choosing a Pathway

Although the math pathway decision will be based on factors unique to each student, we recommend that each student and their parents reflect on the following four factors before making this selection:

- Student's future education plans
- Student's future career plans
- Student's interest in math
- Student's performance in math 10 pathways



School Scheduling Considerations

- Customize this slide to indicate your school's plans for offering (which course in which semester, on-site or distance offering)



Curriculum Documents

If interested, parents may view full curriculum guides at:

www.curriculum.gov.sk.ca

(Math 20 pathways are expected to be posted in February)



Resources

- **Foundations of Math 20**
 - Nelson

- **Pre-calculus 20**
 - McGraw-Hill

- **Workplace and Apprenticeship 20**
 - Pacific Educational Press



Thank you for attending
our presentation.

