



R.F. STAPLES SECONDARY SCHOOL

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September 1, 2012

Dear Parents / Guardians,

Your son or daughter is enrolled in the Pre-Calculus stream 20-1 of Grade 11 Mathematics. It is important for you to review with your son or daughter their career plans to ensure they are enrolled in the course that suits their future career goals, their skill at high school-level mathematics, and the requirements for the post-secondary programs that interest them.

Mathematics 20-1 is designed for students who plan to apply for post-secondary programs that may require calculus skills. If they want to enter a post-secondary program such as engineering, mathematics, sciences, some business studies, or other programs that require advanced math skills, they should take Mathematics 20-1. **In the previous math program students who chose to take pure math 10 were challenged by the dramatic increase in expectations from grade 9. In the new program most students take a common math 10 course and as a result the big adjustment now occurs in grade 11 especially in the 20-1 stream. Please see the new course sequence on the back of this sheet.**

The most up-to-date information on post-secondary mathematics entrance requirements is available on the Alberta Learning Information Service (ALIS) website <http://alis.alberta.ca/ec/ep/aas/ta/mathreq.html>.

Math 20-1 is an academic mathematics course. Students can expect to have homework assigned almost every day for the entire semester. During class, it is expected for students to participate in inquiry based learning activities as well as class discussions. **It is essential that students have completed and corrected all assignments on a daily basis.**

Students may experience the greatest degree of success if we work as a team. Please insure that you have access to **Powerschool** and keep up to date with your child's progress in Math 20-1. Students are expected to be present in class for all exams. Please phone the school 780 349-4454 to verify an excused absence. An alternate exam date may be scheduled for excused absences.

Please feel free to contact me if you have any concerns regarding your son or daughter in this class.

Mr. Kulmatyski

Mr. Szautner

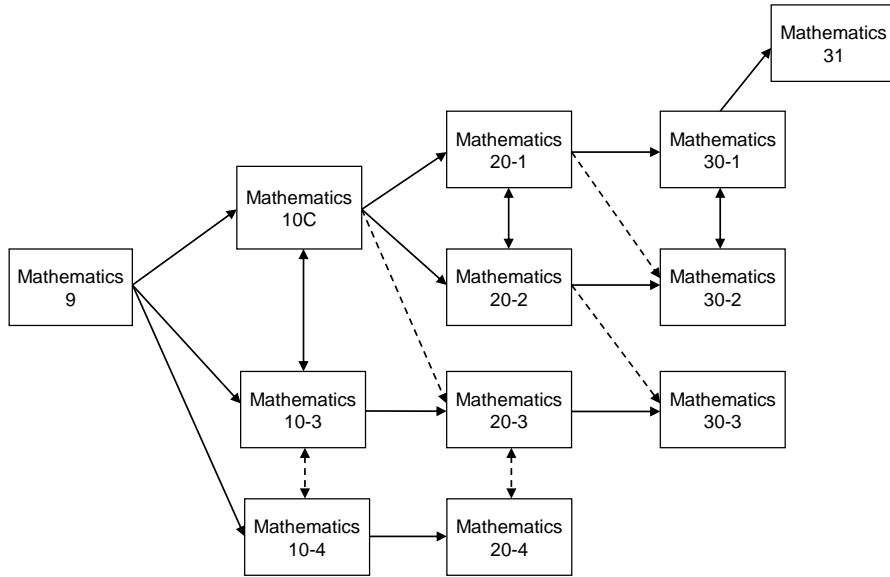
pkulmatyski@phrd.ab.ca

kszauntner@phrd.ab.ca

Student Signature: _____ Parent Signature: _____

PLEASE TEAR OFF THE BACK PAGE AND KEEP FOR REFERENCE AND RETURN THIS SIGNED PAGE TO THE TEACHER.

Course Structure



→ Typical Progression

- - -> Possible Progression

Note: A student must pass Grade 9 Mathematics to take Mathematics 10C.

Dear Parent/Guardian of Grade 10 Student,

The R.F. STAPLES Department is committed to helping your child achieve success and reach his or her goals. Part of this process involves selecting the most appropriate 20-level math course.

Step 1: Research Career Goals

As Alberta Education has implemented a new math curriculum, the different courses are designed to best reflect your child's future career path. Different programs require different mathematics courses. A sample is listed below.

Various Programs Requiring 30-1

- Bachelor of Science at the University of Alberta
- Bachelor of Engineering at the University of Alberta
- Bachelor of Commerce at the University of Alberta
- Any post-secondary program that is calculus-based.

Various Programs Accepting 30-2

- Law (requires an initial degree, for example a Bachelor of Arts)
- Nursing at the University of Alberta
- Bachelor of Education (elementary and secondary, unless you want to teach math)
- Bachelor of Commerce at Grant MacEwan
- Bachelor of child & youth care at Grant MacEwan
- Dental Assisting/Technology at NAIT
- Engineering Technology at NAIT
- Respiratory Therapy at NAIT
- Industrial Heavy Equipment Technology at NAIT

Please note that this is not a comprehensive list. The most up-to-date information on post-secondary mathematics entrance requirements can be found at:

- Alberta Learning Information Service website:
<http://alis.alberta.ca/ec/ep/aas/ta/mathreq.html>
- individual post-secondary institution websites



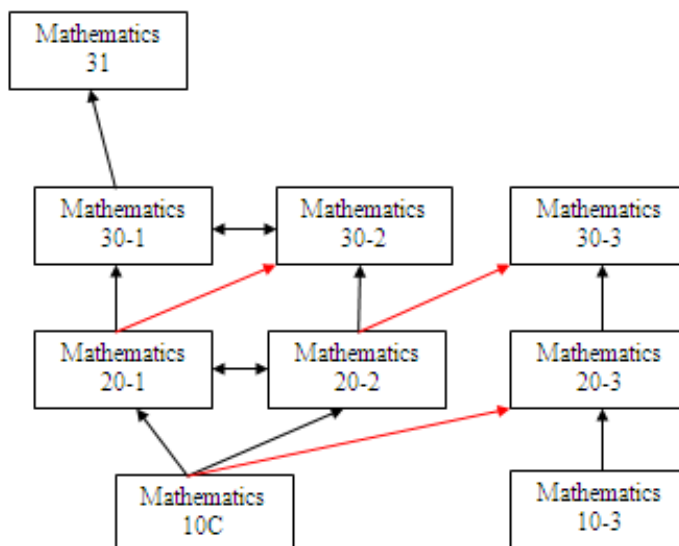
R.F. STAPLES Student Services can also answer any questions you might have about post-secondary.

Step 2: Choose Appropriate Math Course

When choosing the appropriate 20-level math course, you should take into account

- your post-secondary program requirements
- your mathematical abilities (with regards to specific topics)
- your work ethic

The sequence for the various mathematics courses is listed below:



Evaluating your mathematical abilities is not solely dependent on your final mark in Math 10. Instead, you should reflect on your achievement in specific topics of study. The table below shows the grade 10 topics you should be proficient in, in order to improve your chances of success in each 20-level math course.

Math 20-1	Math 20-2	Math 20-3
The Math 10 Common topics that you should be proficient in are:		The Math 10-3 topics you should be proficient in are:
Polynomials	Polynomials	Proportional Reasoning
Exponents & Radicals	Exponents & Radicals	Personal Finance
Linear Equations	Functions & Relations	Measurement
Trigonometry	Trigonometry	Trigonometry

Course selections will be taking place at R.F. STAPLES in the spring. Please feel free to contact any of the mathematics teachers, or Student Services, if you have questions about these different courses.