Recommendations for Success for Grade 9 Students

HIGH SCHOOL SKILLS

High School mathematics requires a greater deal of self-discipline, focus, and practice. Regardless of the course that students enroll in, they should be prepared to learn at a faster pace than in grade 9 and spend (more) time each evening reviewing the day's lesson. Many students find themselves behind even after missing only one day.

To ensure students are more adequately prepared, students should also work to improve their number and variable operations <u>without a calculator</u>. They may practice topics like:

- the "multiplication tables"

- Fractions Operations:
  $$1/2 + 2/3 = 7/6$$
  $$(1/2)\text{x}(2/3) = 1/3$$

- Variable Operations:
  $$3x + 2x = 5x$$
  $$(3x^2)(2x) = 6x^3$$

- Opposite Operations: $2x + 1 = 7 \rightarrow x=3$
  (solving for variables)

GRADE 10 COURSE OPTIONS

For students entering Grade 10, the largest group of students typically enter **Mathematics 10C** (Combined). This course is the starting point for both the Mathematics-1 and Mathematics-2 course sequences.

For students that do not pass grade 9 math and/or were in a modified math program, the courses available are **Mathematics 10-3** (for students planning to enter the majority of trades or the workforce immediately after high school) or **Mathematics 10-4** (Knowledge and Employability).

FULL SEQUENCING (after grade 10)

Mathematics-1 if students want to study mathematics or sciences at a university, college, or technical institute and go on to a related career such as engineering, mathematics, sciences, some business studies.

Mathematics-2 if students want to attend a university, college, or technical institute after high school, but do not need calculus skills. I want to take programs like: arts, some engineering technologies, medical technologies, and some apprenticeship programs.

Mathematics-3 if students are interested in learning the mathematics needed to enter most trades or if I want to enter the workforce after high school.
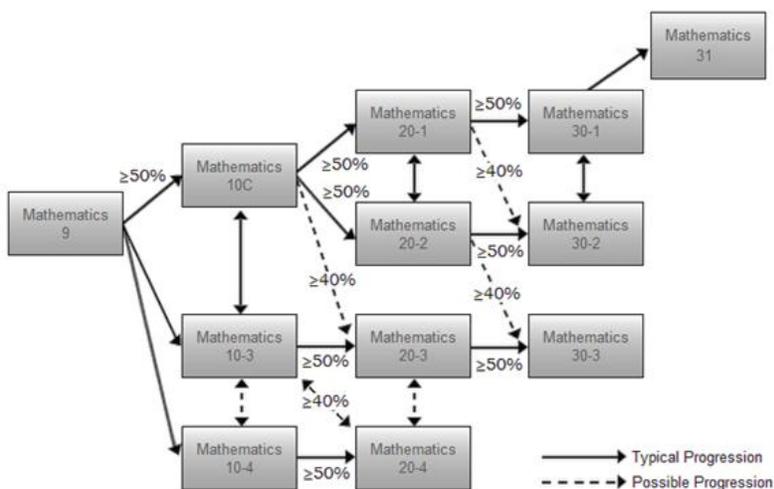
Please visit the Alberta Education website for more information on High School Math.
http://education.alberta.ca/teachers/program/math/parents.aspx