

COURSE OUTLINE
GRADE 10 MATH (MATH 20S)
'PREPARATION FOR APPLIED AND PRE-CALCULUS MATHEMATICS'

This course is the single replacement for the formerly (circa CY 2009) separate Grade 10 Applied and Grade 10 Pre-Calculus courses. The Manitoba Curriculum no longer 'streams' the two Grade 10 courses of mathematics study separately into two different 'strands'. As you progress through this course you will be able to better select whether you want to follow the Applied Math strand or the Pre-Calculus Math strand as you enter Grade 11 Math.

Mathematics is critical to functioning in today's high technology environment. I hope you will find on this course that there is not a single thing you will learn that you have not probably pondered many times in your life; you just did not realize there was a way to quantify it and a language (mathematics) to explain your experience.

Course Content (Units)

Unit Code	Unit Content	Notional Hours
A	Linear Modelling	15
B	Number Sense	5
C	Measurement	20
D	Linear Functions	10
E	Algebra	15
F	Coordinate Geometry	15
G	Trigonometry	10
H	Applications of Linear Functions	20
Total:		110 hours

Pre-Requisites. To readily succeed in this course you will want to have a reasonably solid grasp of the prior grades. If you *do not know* your multiplication tables or fractions or metric system for example you are likely not a good candidate for this course yet.

Assignments. There will be about **20** assignments. Sufficient time at the end of class will generally be available to complete the bulk of them. Some work at home will also be necessary for your continued your success. Assignments handed in late will be subject to a penalty. You will be encouraged to show your work, even if it means separate paper. I award lots of marks when I see students are thinking.

Tests/Exams. A Unit Test is generally three times as important in weight factor as an assignment. The final exam will be **25%** of the class mark. There is only one sitting for Tests and for Exams unless you have made special arrangements otherwise. I tend to favour having Tests on a Thursday.

Extra Assistance. I am available whenever you need almost; do not hesitate to ask for help. If you are here to learn then I am here to teach. There is a school library, after-hours tutoring, my YouTube Channel (*mrfteach*), and my website (*mrfteach.mb.ca*).

Website. I have a website for math and some science : mrfteach.mb.ca. *Use it!* Further, if I have your-e-mail address that will help also for those *infrequent* occasions when you are sick at home.

Calculator. You will need a **scientific calculator**. They generally have anywhere from 50 to 100 functions! Something with the trigonometry buttons, **SIN** , **COS** , **TAN** . A \$2 calculator at Dollarama is sufficient, although the paint tends to wear off the buttons on a \$2 dollar calculator. If you can get a \$10 – \$15 calculator that is likely better.

Fancy expensive Graphing Calculators (Texas Instruments 83; **TI-83**) will be made available for in-class use.

Attendance. The school policy is that if you are absent more than two days per month then you will receive some administrative scrutiny!

Timely arrivals to class are essential to avoid disrupting other earnest and eager classmates. Do not hesitate to contact reception at **989-8860** if you are unable to make it to class.

Distractions. Distracted learning (ie: cell phones, texting, iPods) is not allowed unless you have some very special circumstance of which I have been made aware. Devices on vibrate please. If you have to take an incoming text/call take it out in the hall please.

We are all in this together, let's make it a fun and rewarding course!