

GRADE 10 ESSENTIALS (20S) MATHEMATICS COURSE OUTLINE



Term 1: September 3 – October 31, 2019

Mr. Rick Furney

mrf_teach@hotmail.com

Final Exam: October 31, 2019

We live in a rapidly changing world. Mathematics is playing more and more a role in our everyday lives. A firm foundation in Mathematics is now an essential part of living in today's fast paced society. On this Grade 10 Essential Mathematics (Math 20S) course you will learn several of the essential skills of today's working world.

Grade 10 Essential Mathematics is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields. Grade 10 Essential Mathematics is a one-credit course emphasizing consumer applications, problem solving, decision making, and spatial sense. Grade 10 Essential Mathematics builds on the knowledge and skills of prior studies and provides a foundation for the topics to be studied in Grades 11 and 12 Essential Mathematics.

Topics

Unit Label	Subject	Hours
A	Analysis of Games and Numbers / Problem Solving	11
B	Personal Finance	22
C	Measurement	17
D	2-D Geometry	10
E	Trigonometry	17
F	Consumer Decisions	6
G	Transformations	12
H	Angle Construction	15
	Total	110 hrs

On-Time. Notice that 110 hours is necessary for this course. This is a quick paced course! Disruption of your class through late arrivals too frequently does not promote effective learning. Late arrivals and extended breaks just complicate timely delivery of the course.

Extra Assistance. I am more than readily available at short notice for any and all students for additional assistance provided they are industrious and earnest.

External Support. You will find that I favour the effective use of technology and internet. Check out: 'mrfteach.mb.ca/wp' for more than ample additional support.

Attendance. Attendance and tardiness are recorded daily and processed by the office and funding agencies. Making up missed work and notes is your responsibility. There is more than sufficient means to readily locate what you have missed.

Equipment and Material: A scientific calculator is required. While a \$3 Dollarama calculator is sufficient (*barely*) and for Grade 10 only, a **\$15 - \$20** calculator that features **Multi-Line Display** or equivalent is especially desirable. One that does fractions (an **a b/c** button) is useful too! A perfectly suited calculator is available through me for \$12.

Pre-Requisites. Grade 9 Math, or the equivalent experiential learning, is a pre-requisite for the readily successful completion of the course. There will be many occasions to backfill with *some* prior studies. Notably, however, knowing the multiplication tables is **critical**.

Assessment. A variety of assessment tools will be employed and are not necessarily limited to the following:

Type	Weight Factor
Homework	10
Quizzes (x6)	20
Mid-Term Test	40
Projects/Portfolios	as required
Final Exam	25% of Final Mark

Food/Drink. Food is not permitted in the classroom except for specific occasions. Drinks are permitted provided they have a secure lid.

Smart Phones and Related Devices. Smart phones and related devices can be very powerful tools in a mathematics class. There are some wonderful apps we may explore out of interest. Smart phones and related devices are to be stored away in vibrate mode. Students more interested in their social media will be invited to leave the room while they are so engaged. There will be limited occasion during which to be using iPods and ear buds in the classroom.

Emergencies / Office Number. Reception is at **953-2800**. It will be useful to share this number with child care facilities and immediate family for emergencies only.

Conclusion

We are all in this together. It will be a lot of work for all of us, myself included. But I am prepared to deliver to you a great Grade 11 Essentials mathematics course with your eager and enthusiastic participation.

Date

Instructor