

REDEEMER CHRISTIAN HIGH SCHOOL
MAP4C: Foundations of College Mathematics 12

Semester 1 2017-2018

Mr. Armishaw

Please contact me with questions by email, barmishaw@rchs.on.ca

INTRODUCTION

Mathematics is a method of analysis that can be applied (misapplied) to many different situations in this world. When applied to a situation mathematics increases our understanding of the details and components of that situation. This increases our ability to control the situation. In effect, Mathematics gives us power. Mathematics is widely regarded as one of the key areas of knowledge for success in our society because of its power and its applicability. However, like all areas of human thought, mathematics is a tool that can be used to Godly pursuits or for selfish gains. Taken to its extreme Mathematics can affect our worldview and turn everything we see into numbers. While you learn how to manipulate numbers in various ways, the ultimate use of these numbers cannot be ignored.

The purpose of this course is to strengthen your understanding of the essential math skills that are useful in our society today. Each new math skill is a tool that you can use to help you solve problems effectively. By helping you solve problems, tools give you power over the problems you encounter. The better able you are to wield the math tools you learn the better able you will be to handle the problems life throws at you. Of course the end goal of all this is that you will be prepared to be an effective and wise ambassador for Christ in this life, whether you are counseling someone about their personal problems (budgeting), running your business responsibly, building a deck, or trying to faithfully understand the news or other sources of data.

COURSE CONTENT

Unit and Chapter in Text	Unit/Strand Name
1	Trigonometry
2	Geometry
3	Two Variable Data
4	Statistical Literacy
5	Graphical Methods
6	Algebraic Models
7	Annuities and Mortgages
8	Budgeting

Course Materials

- 3-ring binder with plenty of loose-leaf graph paper and lined paper
- Agenda, pencil, eraser, ruler, scientific calculator
- textbook

Course Text

Coene et al. *Foundations for College Mathematics 12*. Pearson Education Canada. Toronto, ON. 2009.

ASSESSMENT AND EVALUATION

The primary purpose of assessment is to improve learning. Assessment will be ongoing and varied. Some assessments will be used to help determine initial understanding (assessment *as* learning). This is beneficial feedback and will not count towards your mark. During units, ongoing assessments (homework checks, homework quizzes, group work, and conversations) will be used to help improve your learning (assessment *for* learning). Levels, marks and anecdotal comments will be used to communicate your achievement on assessments.

How will I be evaluated?

Your achievement in each of the four categories will be evaluated throughout the course, based on your performance on assessments *of* learning. Tools used for assessment of learning are: quizzes, assignments, tests, performance tasks, final exam. From these items an overall mark will be determined. This mark represents your most consistent performance on the critical learnings for this course. Note that assessments *as* and *for* learning will NOT count towards the mark, nor will quizzes.

	CATEGORY	Weighting out of 100
Term Evaluations 70%	Knowledge/Understanding	25%
	Thinking/Inquiry	15%
	Communication	15%
	Application	15%
Final Evaluations 30%	Culminating Performance Task	10%
	Exam	20%

Learning Skills are evaluated and reported separately. Each Learning Skill is reported using E, G, S or N (Excellent, Good, Satisfactory, Needs Improvement). Even though Learning Skills are not part of your mark, they are critical to your success in this course and their development is part of your learning.

STUDENT EXPECTATIONS

Politeness: We will always be polite to each other, and listen quietly when it is appropriate. The classroom should be a quiet place where students can concentrate on their studies. Factors that distract from this environment and thus get in the way of other students learning will be removed from the class. Observe the End of Class routine: Please do not close your books until I have given permission to. *The bell does not dismiss you - the teacher does.* Remain seated until I dismiss the class.

Use the facilities before you come to class. Do not expect to be allowed to go to the washroom during class.

During a lesson or class discussion, wait until an appropriate time to leave your seat to sharpen your pencil or throw out a piece of paper.

Preparedness: When the bell rings, be at your desk ready to work, both physically and mentally! Bring all needed materials to every class: textbook, binder, paper (including graph paper), pencil, eraser, ruler, scientific calculator, and your agenda. You will not be allowed to go to your locker to retrieve forgotten items.

Notebook: To allow for proper review for tests and the exam, notebooks are expected to be neat and organised (in a binder). Classroom notes must have a title and the date. Homework is to be done on a separate page and must include the page number (from the textbook) and the date. You should have a separate section in your binder for each unit of study, containing: Notes and/or hand-outs for each day of class, followed by homework for that day

Guidelines for homework assignments and tests/quizzes:

- All homework assignments are expected to be completed neatly and on time. There will be regular homework checks.
- Quizzes will be based on homework questions, or course material that covers a major topic of study. Some quizzes will be announced in advance and some unannounced.
- There will be a test at the end of most chapters. Use your chapter outline sheets to track your progress and identify skills you will need to practice before the test.

☒ TESTS: Inform the teacher if you know you will be away for a test or require an extension on an assignment. Tests missed due to illegitimate absence (skipping) will be recorded as zero. Tests missed due to **legitimate absence** will be written on the return of the student **during lunch or after school**.

☒ LATES: **Paper copies** of assignments are due **on my desk** at the **beginning of class** on their **due date**. Late assignments will be deducted 10% per day and the student assigned to Study Hall until complete. For each day that an assignment is overdue, there will be a 10% deduction from the final grade, and no marks will be given after 5 days. Parents will be contacted when assignments are late and student will be expected to attend study hall until all work is complete (even if the assignment is more than 5 days late).