

Division 3 Mathematics Course Outline and Expectations

THE RENERT SCHOOL AT ROYAL VISTA

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A. The main goal of mathematics education is to help students:

- Build strong analytical skills
- Demonstrate flexibility and creativity of thought
- Solve problems analytically by using mathematical processes
- Communicate and reason mathematically
- Appreciate and enjoy the beauty and value mathematics
- Develop the ability to prove, reason, and advocate a position logically and intelligently

B. General Outcome of this course This course is designed to continue expanding the skills developed in previous math courses. It covers, in full, the Alberta Grade 10 curriculum, and—if time permits—progresses into the Grade 11 curriculum as far as possible. Topics are introduced in a way that fosters a deep understanding of the underlying concepts, as well as mastery of all related proofs and definitions. At Renert, we do mathematics through understanding, not memorization.

C. Required Materials

- Brain
- 3-ring binder with graph paper
- Pens, pencils, highlighters, coloured markers, erasers
- Geometry set (ruler, protractor, compass etc.)
- All study materials (books, handouts etc.) will be provided to the students in class

D. Digital Communication

- There is an online community for this class on www.schoology.com. Students can access important information such as deadlines, assignments, and grades from this webpage. The Class Access Code is: **X4T3-HDTN-NSFS6**. All students are expected to join the group, as it serves as an additional channel for communication. A GitHub repository has also been created, where important dates and useful information will be posted: https://merrickmath.github.io/Div34Math/.
- Please contact me through Schoology, or at merrick.fanning@renertschool.ca if you have any questions.

Student Expectations

As our students move into senior high mathematics, the material gets deeper and more involving. In order to get stronger as mathematicians, and to be well positioned for college and university level mathematics, I expect you to:

- Treat yourself, your teachers and the subject matter with the same respect you deserve and would like to be treated with.
- Get organized!!! Mathematics is a highly structured language that is written in a very particular way. Understanding how to think mathematically is half the battle; the other half is presenting your solution in a way that makes perfect sense to another fellow human.
- Adopt a good attitude and an open mind towards the subject matter. Mathematics is the crowning jewel of human thought. It is intriguing, beautiful, fun, and exciting. It has enriched countless lives and can do the same for you. Attend class not only in body but also in spirit.
- Come to class prepared. Read all the assigned materials. Attempt to solve all assigned problems. Homework at the Renert School is not optional. Math is not a spectator sport: you learn it by practising, solving problems and participating. It is an expectation that you complete your homework.
- Have perseverance. The only way to improve in mathematics is by doing mathematics. Failing is part of the experience; do not despair if you do not get all the right answers right away (nobody does). The best learning is by trial and error. Use the marking keys but do not abuse them; there is a fine line between the two.
- Participate in class and ask questions: if you do not know something, quite a few of your friends around you struggle with it as well.
- Help one another and get help when needed. By helping your peers, or getting them to assist you, everyone's learning is being greatly enhanced.
- Attend all classes. Regular attendance is crucial to be successful in this course. You are expected to come to all classes on time and be ready to work. It is your sole responsibility to make up for missed classes by getting notes from a friend who attended and going to the Tutoring Centre if you need help to catch up. Saying "I did not know what the homework was because I missed class" is not acceptable at our school.
- Take good class notes so that you always have a reference. Your binder showcases your learning. Keeping your notes organized in your binder will also help to improve your learning.

Also:

• You may bring a water bottle with a lid to class if you need to drink a lot.

I have read, understood and intent to do my utmost to meet all above expectations:

Cheating is not tolerated under any circumstances! Integrity is valued and expected of all
Renert Students. Copying answers wholesale from marking keys or friends, presenting someone
else's work as yours, being untruthful about not having done homework or cheating on exams
are all considered severe academic misconducts that may lead to a failing grade in the entire
course.

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Student name:		Date:
Student signature:		
Parent signature:		