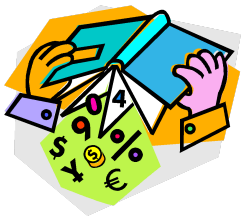

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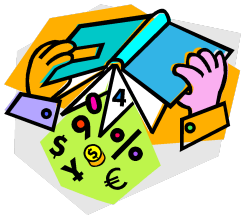


Teacher: Mrs. E. Gebhardt

E-mail: elizabethgebhardt@prrd8.ca **School Phone: 403-528-1996 ext 2022**

Mathematics 10C is designed to provide students with the mathematical understandings and critical-thinking skills needed to advance to Math 20-1 or Math 20-2 and to develop meaning based on a variety of learning experiences. This meaning is best developed when learners encounter mathematical experiences that proceed from simple to complex and from the concrete to the abstract. The use of manipulatives, visuals, and a variety of pedagogical approaches can address the diversity of learning and developmental stages of students. At all levels of understanding, students benefit from working with a variety of materials, tools, and contexts when constructing meaning about new mathematical ideas. Meaningful student discussions also provide essential links among concrete, pictorial, and symbolic representations of mathematics. More specifically, the goals for students in this course are to:

- **solve problems**
- **communicate and reason mathematically**
- **make connections between mathematics and its applications**
- **become mathematically literate**
- **appreciate and value mathematics**
- **make informed decisions as contributors to society**

STUDENTS WILL….

- Gain an *understanding* and *appreciation* of mathematics in society
- Exhibit a *positive attitude* toward mathematics
- Engage and *persevere* in problem solving
- *Contribute* to mathematical tasks
- Take *risks* in performing mathematical tasks
- Exhibit *curiosity* about mathematics

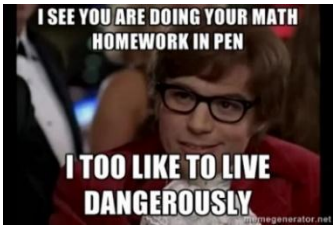
PROCESSES:

- Communication
- Connections
- Mental Math & Estimation
- Problem Solving
- Technology
- Visualization

Student Materials:
In order for students to be successful, they must have the proper materials.

For Math 10C, the following is required:

- Yourself – You need to be in class every day ready to **think**, **share**, and **learn**
- A positive attitude – **I can, I will, I am able to!**
- Binder with lined loose-leaf paper (or notebook)
- Pencils, Pens, Erasers & Straight Edge
- Graphing Calculator **(recommend TI-83 Plus or TI-84 Plus)**
- whiteboard markers (optional)



Mathematics 10C
Program Timeline ***(Tentative)***

Introduction/Course Outline/Classroom Procedures	(2 – 3 classes)
UNIT 1: Exponents & Radicals	(15 classes)
UNIT 2: Polynomials	(10 classes)
UNIT 3: Trigonometry	(7 classes)
**** CUMULATIVE Review & EXAM I **** (3 – 4 classes)	
UNIT 4: Relations & Functions	(19 classes)
UNIT 5: Systems of Equations	(8 classes)
**** CUMULATIVE Review & EXAM II **** (4 – 5 classes)	
UNIT 6: Measurement	(12 classes)
FINAL ASSESSMENT/FINAL REVIEWS *(reviewing and re-visiting all outcomes)*	(3 classes)

EVALUATION:
The following categories will be used to evaluate student progress and achievement throughout the course:

TERM MARK:

Daily Work	0%
Unit Exams	25%
Summative Assignments (In-Class Assignments/Projects/Quizzes)	25%
Cumulative Exams (Cumulative I Exam – 10%, Cumulative II Exam – 15%)	25%
Final Exam	25%

Summative assignments may include in-class assignments, projects, quizzes and/or reviews.

Daily work may consist of daily homework/practice, check-ups, problem solving, quick questions, and other observable skills.

Work must be shown to earn full marks on questions. A correct answer without showing supporting work will only be awarded partial marks. If the answers were already provided to students (ie. answer key), no marks will be awarded. On the other hand, a wrong answer that does include some correct work may also result in partial marks. It pays to show your work. Demonstrating the correct process is more important than getting the right answer.

CLASSROOM EXPECTATIONS

- Arrive on time and ready to learn (all materials present, positive attitude).
- Respect yourself, your classroom, your classmates, and staff members.
- Responsibility - take ownership of your learning, complete all work to the best of your ability or ask for the help you need to do so.
- Results-remember that showing the correct process is more important than getting the correct answer. Take risks and make mistakes–these help us learn!
- Active Participation -active listening, participation in group activities, individual work, and class discussions.
- **Late/Incomplete Assignments:** Students will be given class time to work on assigned work. That which is not completed in class will be considered homework. Students will be expected to submit their assigned work on the assigned due date (often the following day). If not completed, students may be asked to come in at TAG or Lunch. Summative assignments and projects are for marks and students will be expected to come in during TAG or lunch until assigned work is complete. If a student misses their detention and/or a pattern of not completing work becomes apparent, administration will be notified and a parent/guardian call will be made.

- **Exams:** If a student is absent for any quizzes/exams, they will be expected to make arrangements with the teacher to write the exam/quiz. Consideration for rewrites on Unit Exams only will be given toward the end of the semester. Please note that quizes, Cumulative Exams, and Final Exams cannot be rewritten.

- **Students are expected to take responsibility for their progress and achievement**. This includes being prepared for each class with the necessary supplies. If you are having difficulty with a particular concept or section, it is recommended that you request extra help as soon as possible.

- **If there is a concern** or you feel an error has been made with regards to your evaluation, please discuss the matter with me. It is important that you understand and are clear on what basis marks are given.

- **Electronic Devices:** Electronic devices must be powered off and stored in lockers or backpacks during class time unless otherwise instructed by the teacher. As stated in the student agenda, it is not the responsibility of the teacher to prove whether a student is using their device inappropriately or not. In such cases, the action in question will be considered a violation of the electronic device policy. Students using electronic devices for non-instructional purposes during class time will be asked to hand the device over to the teacher for the duration of the class for the first offense. For any subsequent offences, the teacher will turn the device over to the office. **Unless directed by the teacher, there should be no recording (photo and/or video) of the student, classmates, teacher or class in any form.**

- **Other General Classroom Expectations:** Music devices are not permitted unless told otherwise. Water and “non-distracting” foods are allowed, but must be consumed responsibly. Students will <u>not</u> be permitted to leave during class to get food/drinks from their locker or the vending machine. Further routines, procedures, and expectations will be explained and reviewed throughout the semester. Students are expected to put forth their best effort.

Links & Resources

The following is a list of QR Codes and Links you may find useful for this semester.

Eagle Butte Website
https://eaglebutte.myprps.com/

Mathematics 10 (Textbook PDF)
https://bit.ly/text_M10C

ExamBank – Math 10C
http://alberta.exambank.com
Login: pr
Password: exam

Khan Academy (free tutorial videos)
https://www.khanacademy.org/

Quest A+ (Practice Tests)
https://questaplus.alberta.ca/

The Grand Math Connection
https://mathpqjq.com/

Primary Textual Resource: **MATHEMATICS 10**
McGraw-Hill Ryerson

- A variety of other resources including the internet and published works will be used to supplement the above resources

Remember: I am here to help you in any way I can. Please ask for extra help as soon as issues arrive and we can make a plan to work together during TAG, lunch, or after school.

Good luck for a great semester!