Panorama Ridge Secondary
Mathematics 10 FPC Outline

Core competencies are sets of intellectual, personal, and social and emotional proficiencies that all students will work on developing in order to engage in deep learning and life-long learning.

Communication - the set of abilities that students use to impart and exchange information, experiences and ideas, to explore the world around them, and to understand and effectively engage in the use of digital media.

Thinking - the knowledge, skills and processes we associate with intellectual development. Thinking competence includes specific thinking skills as well as habits of mind, and metacognitive awareness.

Personal and Social - the abilities students need to thrive as individuals, to understand and care about themselves and others, and to find and achieve their purposes in the world.

BIG IDEAS

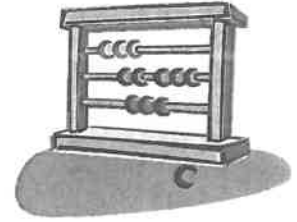|				
Algebra allows us to **generalize** relationships through abstract thinking.	The meanings of, and **connections** between, each operation extend to powers and polynomials.	Constant rate of change is an essential attribute of linear **relations** and has meaning in different representations and contexts.	Trigonometry involves using **proportional reasoning** to solve **indirect measurement** problems.	Representing and analyzing **situations** allows us to notice and wonder about relationships.

LEARNING STANDARDS

Curricular Competencies	Content
Students are expected to do the following:	*Students are expected to know the following:*
Reasoning and analyzing - Use reasoning and logic to explore, analyze, and apply mathematical ideas, demonstrate and apply mental math strategies, and model mathematics in contextualized experiences **Understanding and solving** - Apply multiple strategies to solve problems in both abstract and contextualized situations **Communicating and representing** - Explain and justify mathematical ideas, decisions and thinking in many ways **Connecting and reflecting** – reflect on mathematical thinking and use mathematical arguments to support choices, incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts	• operations on **powers** with integral exponents • prime factorization • **functions and relations:** connecting data, graphs, and situations • **linear functions:** slope and equations of lines • arithmetic sequences • **systems** of linear equations • **multiplication** of polynomial expressions • polynomial **factoring** • primary **trigonometric** ratios • financial literacy: gross and net pay

*Additions to the content are likely in this course, please see classroom teacher for more details

Ms. Nathoo MATH 10

EMAIL: nathoo_d@surreyschools.ca

COURSE OUTLINE

Welcome! I am pleased to be your teacher and hope you enjoy
learning about math as the semester progresses. I am here to help you, but you must also help
yourself first. Be an active and organized learner.

Be sure to date each page in your binder and keep everything in date order. You will be given
notes, practice worksheets, and quizzes on a regular basis.

Materials Required

- Textbook (replacement cost $60) – **my textbook # :** _____
- binder
- separators (notes, practice questions, home work)
- 200 sheets of lined paper, 20 sheets of graph paper
- pencil & eraser
- pens (two colours)
- highlighter
- ruler
- scientific calculator (has square root and exponent buttons)

Evaluation - Your final mark will be a blend of the following:

• Skills Quizzes – Course Content	20%
• Unit test	60%
• Final Exam	20%

Course Expectations

Behavior:

- Come to class on time with all of your supplies.
- Behave in a responsible, considerate, **RESPECTFUL** manner when dealing with peers, classroom and/or substitute teachers.
- No food, drinks (exception: water bottles) are permitted.
- **NO CELL PHONES or IPODS are to be seen or heard during class. First offence, warning, second offence, confiscated until the end of the day, 3rd offence, confiscated and phone call made home.**

Consequences:

- Failure to follow the above expectations will result in appropriate action being taken.
    1. You will be reminded of the rule
    2. I will discuss the ongoing problem with you during an after school detention
    3. Your parents/guardians will be notified
    4. A referral will be made to the counselors/administration

Attendance:

- Students are expected to arrive to class **on time**. If you are late, please come in quietly and get started right away.
- Regular attendance is extremely important! If you miss a class, **you are responsible** for the work done. This includes copying notes and completing any work assigned during the missed class **before** the next class.
- With a note from home excusing your absence, you may write any missed tests/quizzes upon your return to class. The note must **explain** your absence, be **signed and dated by a parent/guardian** and have a **phone number** that I can reach them at.
- It is as important to attend class as it is to be in class 100% of the time.

Cheating is unacceptable and will result in *an __INCOMPLETE__ for all parties involved*. Cheating includes:

- ❖ Copying or allowing someone to copy on a test or quiz
- ❖ Using a cheat sheet on a test or quiz
- ❖ Copying or allowing someone to copy and assignment or lab either in whole or in part
- ❖ Copying directly from the text or other resource

To achieve success:

- ❖ Attend all classes.
- ❖ Be on time.
- ❖ Complete all homework and assignments.
- ❖ Bring textbook, notebook and writing tools to each class.
- ❖ Use your student agenda to record homework and assignments.
- ❖ Study for tests.
- ❖ Ask for help if you are confused.
- ❖ Keep your notebook organized and neat.
- ❖ Maintain a GOOD ATTITUDE! ☺

LET'S MAKE THIS SEMESTER A SUCCESS!

Name: _____   Date: _____

Dear Student, please write me a short message that answers the questions: **Who are you?** (What are your interests, favourite classes and passions? What are you hobbies?)

To Parents and Students, Please read the course outline together, and then complete the section below to indicate that you have read the document and to provide your preferred contact information this semester.

What are the student's goals in Math 10 this semester? (Academic and/or work habit)

_____   _____

Parent Name(s)   Student Name

_____   _____

Parent Signature   Student Signature

_____

Parent Preferred Contact Information