

**MAT306 – Grade 9 Mathematics
Course Syllabus 2023-24**

Instructor: Dr. Catherine James

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Remediation: At lunch (to be determined)

Course Overview:

“History often helps by adding context. Mathematics, after all, is a cultural product. It is created by people in a particular time and place, and it is often affected by that context. Knowing more about this helps us understand how mathematics fits in with other human activities” (Berlinghoff and Gouvêa, 2014, p. 3).

From counting and accounting to agriculture, astronomy, art, and logic games, people have been developing and using mathematics for thousands of years. Mathematics and mathematical developments continue to help people make sense of the world around them. In this course, we will consider some foundational areas of mathematics and the ways in which these concepts continue to influence our lives today.

Required Materials:

Notebook

Memory aid in sheet protector

Pencils/erasers

Pencil crayons or highlighters

Ruler

Calculator

Topics To Be Covered (tentative schedule):

Term 1	Term 2	Term 3
Number Sets (natural numbers, integers, rational numbers, irrational numbers, real numbers) Exponents (basics, operations with exponents) Scientific Notation Algebra (operations with monomials)	Algebra continued (operations with polynomials) Equations and Inequalities Functions and Relations (various representations, rate of change, rational functions, inverse of a function)	Solids (views, area and volume, isometric figures and solids) Probability (basic counting principle, permutations and combinations, basic probability) Statistics (surveys, tables and diagrams, measures of tendency, box and whisker plots)

Assessment and Evaluation

In this course, you will be evaluated on two competencies:

- C1 - Solves a situational problem – be able to relate math concepts to real life scenarios (not included in Term 1)
- C2 - Uses mathematical reasoning – be able to analyze a situation and draw conclusions using effective mathematical methods

In addition to in-class assessments (assignments, projects, quizzes, tests, situational problems, etc.) this class will have a midyear exam and a final exam

Missing an Assessment

Assessments must be written on the scheduled day. If you know ahead of time that you will be away, alternative arrangements must be made before the assessment date. Missed assessments will be written at lunch. If you have an unexpected absence, you must complete the assessment upon your return.

Late Policy and Absences

All late arrivals will be recorded and detentions will be served with the office. *You* are responsible for catching up on class notes and completing any assessments which you missed due to absence. If you are aware of your absence in advance, please let me know.

Class Procedures

My foremost request is that we all respect one another in class. That means respecting each other individually, as well as respecting the thinking of others.

Additionally, your responsibilities including bringing all your materials to every class. ***Please do mathematics work in pencil*** – *mistakes are an important part of learning but it's important to erase mistakes on assessments so your work is clear.* You must hand in all assignments on time. While I am somewhat flexible about late assignments due to illness or other excused absences, I expect you to see me the day you return from illness to get your missed work. You need to be caught up at all times because it is easy to get behind and can be difficult to catch up. If you know you will be absent on a due date, please see me prior to that date to arrange an alternative arrangement.

Plagiarism

Many students, afraid that their incomplete work will be checked by me, copy another student's answers prior to class. *If you do this, it is cheating and I will give a grade of zero for the assignment and refer you to the administration for disciplinary action.*

Extra Help Options

A regular remediation schedule will be set during lunch hour in the next few weeks. These will be open forum: a place to complete homework, work on assignments, or ask questions while I am present. In addition, my website (www.msjameswqsb.weebly.com) has notes and helpful resources. If you feel the need to acquire outside math tutoring, LEARN is an excellent (and free) online option for all WQSB students.

I am looking forward to a great year with you!