Course Outline for Grade 8 Math

Grade 8 Math (MAT-8a)

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Our study of Math will be based on developing Math skills and literacy. The Manitoba Curriculum is organized around Four Strands for Mathematics Literacy. We aim to build students' capacity to understand Mathematics and connect these skills and knowledge to their everyday life. Our study of Math will be based on developing Math skills and literacy. We aim to build students' capacity to understand Mathematics and connect these skills and knowledge to their everyday life. The main goals of mathematics education are to prepare students 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 (Mb Education and Training. Math Frameworks, 2009). Grade 8 Mathematics will have four sections (please see course breakdown) and will be assessed using the provincial report card breakdown of knowledge and understanding, mental math and estimation and problem solving. Assessments will be formative and summative throughout the course. Only summative assessment is used for the report card.

Additional time will be spent on recovery learning for grade 7 outcomes that were not fully covered where needed to continue on in Grade 7 Math. Grade 7 students will work on this as a whole class, in small groups or individually where review and additional teaching is required.

Course Breakdown: also see https://www.edu.gov.mb.ca/k12/cur/math/outcomes/gr8_outcomes.pdf

1.**Number Sense**

-divisibility rules -adding, subtracting multiplying and dividing decimals

-adding and subtracting fractions and mixed numbers -Integers -compare and order fractions

2. **Patterns and Relations**

-linear equation -table of values -expressions and equations

3. **Shape and Space**

Measurement- radius, diameter, area, and circumference of circles
-area of triangles and parallelograms

-2-D Shapes -Transformations (position and motion of objects and shapes)
- Cartesian plans and ordered pairs

***Students in the Grade 8 Mathematics Course will follow the Manitoba Rural Learning Consortium Pacing Guide in order to cover all four strands of the Mathematics Course for the grade 8 level. This year we will spend extra time on reviewing grade 7 outcomes that were covered but not completed during remote learning. This will include a review and re-teaching of, but not be limited to, Length, Area and Angles, Algebraic Representations with Equations, Data Analysis and some aspects of Geometric Construction. These topics will be covered as necessary and prior to the specific Grade 8 outcome where it is needed.*

***Course Material*:** Math MakeSense 8 (textbook and practice book) , geometry set, calculator, binder, pencil/pens

I would also ask that each student provide a pencil case with their name on it. Students are to keep their course materials separate.

Technology: Students will participate in using the Teams platform to complete at home assignments and tasks. Additional time will be used to support students in learning how to use this program in the event that asynchronous learning/remote learning is necessary.

Assessment:

Student will show what they know through formative assessments which includes daily work, hands on activities, games, practice quizzes, and exit slips. Student are expected to complete formative assessments. Students will have approximately **10-12 summative assessments** (outcomes based) throughout the year and **one math project.** Students will receive both a percentage mark (calculated cumulatively) and a numerical grade scale of ND (not demonstrated), 1 (50-59%), 2 (60-69%), 3 (70-79%) or 4 (80-100%).

Classroom Policies:

Ste. Rose School Handbook outlines the expectations in regards to academic dishonesty, attendance and the use of technology. An assignment is due on the due date. Students who are unable to meet that due date must make arrangements with the teacher or take an incomplete. Teachers will use their discretion based on circumstances to make their final decision. An incomplete will result in a mark of zero.

Academic Dishonesty:

As you may have heard already today, academic dishonesty will not be tolerated in this school. If you are asking, "What is academic dishonesty?" the answer is simple – any type of cheating. This includes
(according to Wikipedia)

Plagiarism: The adoption or reproduction of original creations of another author (person, collective, organization, community, including anonymous authors) without due acknowledgment.

Fabrication: The falsification of data, information, or citations.

Deception: Providing false information to an instructor —e.g., giving a false excuse for missing a deadline or falsely claiming to have submitted work.

Cheating: Any attempt to give or obtain assistance (like an examination) without due acknowledgment.

Bribery: or paid services such as giving certain test answers for money.

Sabotage: Acting to prevent others from completing their work. This includes cutting pages out of library books or wilfully disrupting the experiments of others.

If you commit academic dishonesty, you will be required to meet with your teacher to discuss a reasonable consequence for your actions. Your parents will be notified.

*All assignments, projects, class activities and assessments are subject to change in the event of changes to Health Protocols set in place by Manitoba Public Health.