**Grade 8 Mathematics**

*Ste. Rose School Miss K. Orr Sept. 2025 – June 2026*

**Communication**

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**Phone:** 204-447-2088 (school)

***Microsoft teams*** *will be used throughout the year as the main communication and organizational medium between the teacher, students and parents.*

***The code for this class is:*** *6qw88uj*

**Course Description**

Grade 8 learners will demonstrate an understanding of ratios, rates, proportional reasoning, percents, perfect squares, and square roots. They will demonstrate an understanding of multiplication and division of fractions, mixed numbers, and integers, and they will make connections among all four operations. Learners will graph and analyze linear relations, and model and solve linear equations. They will develop and apply the Pythagorean Theorem, and they will draw and construct nets of objects. They will determine the surface area of prisms and cylinders, and they will develop and apply formulas for determining their volume. Learners will draw and interpret views of objects, and they will demonstrate an understanding of tessellations, critique ways in which data are presented, and determine the probability of independent events.

**Course Content**

***Unit 1:* Numbers**

* *8.N.4 - Demonstrate an understanding of ratio and rate.*
* ***8.N.5 - Solve problems that involve rates, ratios, and proportional reasoning.***
* *8.N.3 - Demonstrate an understanding of percents greater than or equal to 0%.*
* ***8.N.6 - Demonstrate an understanding of multiplying and dividing positive fractions and mixed numbers, concretely, pictorially, and symbolically.***
* ***8.N.7 - Demonstrate an understanding of multiplication and division of integers, concretely, pictorially, and symbolically.***
* *8.N.8 - Solve problems involving positive rational numbers.*

***Unit 2:* Patterns & Relations**

* ***8.PR.1 - Graph and analyze two-variable linear relations.***
* ***8.PR..2 - Model and solve problems using linear relations in various forms concretely, pictorially, and symbolically.***

***Unit 3:* Geometry & Measurement**

* *8.N.1 - Demonstrate an understanding of perfect squares and square roots, concretely, pictorially, and symbolically.*
* *8.N.2 - Determine the approximate square root of numbers that are not perfect squares.*
* ***8.SS.1 - Develop and apply the Pythagorean theorem to solve problems.***
* *8.SS.2 - Draw and construct nets for 3-D objects.*
* *8.SS.3 - Determine the surface area of right rectangular prisms, right triangular prisms, and right cylinders to solve problems.*
* *8.SS.4 - Develop and apply formulas for determining the volume of right prisms and right cylinders.*
* *8.SS.5 - Draw and interpret top, front, and side views of 3-D objects composed of right rectangular prisms.*

***Unit 4:* Stats & Probability**

* *8.SP.2 - Solve problems involving the probability of independent events.*
* *8.SP.1 - Critique ways in which data are presented..*

***Unit 5:* Transformations**

* *8.SS.6 - Demonstrate an understanding of tessellation by:*
  + *Explaining the properties of shapes that make tessellating possible*
  + *Creating tessellations*
  + *Identifying tessellations in the environment*

*\*\*Students in the Grade 8 Mathematics Course will follow the Manitoba Rural Learning Consortium (MRLC) Pacing Guide in order to cover all four strands of the Mathematics Course for the grade 8 level.* **Bold outcomes are “Foundational Outcomes”.**

**Evaluation**

**Course Work 100%**

***Please note:*** *We will be participating in mRLC based assessment along with teacher based assessment throughout the year.*

**Required Materials**

* Binder
* Loose Leaf
* Pencils/Pens (both red & blue)
* Textbook
* Calculator

**Policies, Procedures & Notices:**

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| **Responsibility**   1. If you are absent, you are responsible for finding out what you have missed. The majority of documents should be available for you on Microsoft Teams, however if paper copies were provided in class, there will be a copy for you in a predetermined location. Please come see me if you have questions regarding what you have missed. *Note: students are expected to follow the Ste. Rose School Attendance Policy.*    1. **Late Policy:** You will be considered late if you arrive after the bell. You will be considered absent if you arrive more than 10 minutes late. 2. Come to class **ON TIME & PREPARED** with your binder, notebooks, writing utensils, calculator & any other items you might need. 3. This classroom will be one where everyone is comfortable to ask questions and state their opinions. Therefore, everyone is expected to **treat others with respect.** Inappropriate comments will not be permitted. 4. Go to the washroom prior to class AND ensure your water bottle is filled. |
| **Assessment & Grading**  All of the graded assignments, projects, tests, and discussion will be graded according to the student’s ability to meet the Manitoba curriculum outcomes. Both formative and summative assessment tools will be used. To obtain an overview of the curricular outcomes go to the link below or contact Miss Orr.  <https://www.edu.gov.mb.ca/k12/framework/english/math/math_gr8.html> |
| **Miss Orr’s Late Assignment Policy**  ***Time management*** and having the ability to***meet due dates*** is an extremely important skill. Assignments are expected to hand in assignments on the due date. Late assignments will only be accepted at the teacher’s discretion. **It is up to the student to communicate with the teacher** if they cannot complete the assignment on the expected due date.   * Upon a student not meeting a due date, communication will occur via email to the student, parents, and principal noting **steps to move forward.** * Work not submitted on time with no plan of action will be **marked as a zero.**   ***Note: All due dates in MY COURSES are at 3:30pm.*** |
| **Cell phones**  As per the Manitoba government and Turtle River School Division’s policy, no cell phones will be allowed **during class time**, unless directed for educational purposes by your teacher. In my class, you will be required to place it in a holder in a designated location during class time. If you are caught with it during class and it is not in the holder, **parents will be contacted** and administration will become involved. |
| **Academic Dishonesty**  The Ste. Rose School Handbook outlines the expectations in regards to academic dishonesty. If at any time you are unsure about an assignment it is the student’s responsibility to ask for clarification, attendance and the use of technology.   * **1st offence:** The student will receive a zero (0) on the assignment. A phone call/email will be sent to the parent/guardian. * **2nd offence:** A letter will also be sent home to the parent/guardian. The parent/guardian must sign the letter and return it to the school. The Student will receive a zero (0) on the assignment. * **3rd offence:** The student will receive a zero (0) on their assignment and they will be referred to the principal for further disciplinary action. A meeting will need to be arranged with the parent/guardian to address the severity of this issue. |
| **Extra Help**  If you require extra help, please come see me directly to set up a time that will work for both of us. Do not hesitate to reach out to me if you have any questions or concerns about the material we are covering. |