



## Ste. Rose School

Box 129  
280 Gendreau St.  
Ste. Rose, MB  
R0J 1S0

**Course Title:** Essential Math 20S

**Teacher:** Mr. Grammatico ([mgrammatico@trsd.ca](mailto:mgrammatico@trsd.ca))

**Dates:** Semester 1 (September 2023 - February 2024)

**Days 1-6 1:00 pm-2:12 pm**

**Room:** 132

### **Course Overview:**

Essential Math 20S is a math course designed for those students who do not intend to pursue academic studies at the post-secondary (college/university) level that require higher level math. Much of the content is designed to suit the needs of those wanting to pursue the trades, or fields in industry. This course is the prerequisite course for Essential Math 30S and 40S. This course is often taken alongside, or in addition to, more academic math courses such as Applied Math and Pre-Calculus. Topics covered include:

**\*Analysis of Games and Numbers**

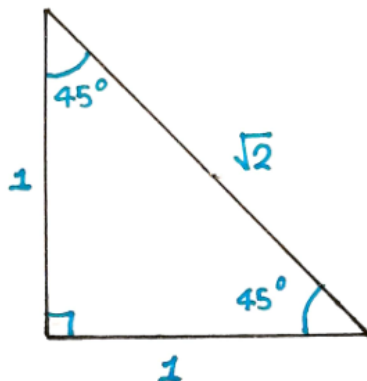
**\*Trigonometry**

**\*Personal Finance**

**\*Geometry**

**\*Consumer Decisions**

**\*Measurement**



More information about this course can be found in the provincial curriculum document: [gr10\\_essential.pdf \(gov.mb.ca\)](http://gov.mb.ca/gr10_essential.pdf)

### **Materials/Technology:**

- +Scientific Calculator
- +Binder
- +Paper
- +Ruler
- +Optional: geometry set
- +Pencils
- +Laptop and charger

### **Course Schedule:**

#### **September: Analysis of Games and Numbers, and Personal Finance**

As part of the Personal Finance unit, students will learn:

- +Different ways workers earn a wage (hourly wage, salary, piecework, etc..)
- +Calculation of gross pay, deductions (CPP, EI, income tax, etc), and net pay
- +Applying and using formulae for a workplace context

As part of the Analysis of Games and Numbers unit, students will learn:

- +Analysis of puzzles and games that involve spatial reasoning

#### **October: Measurement and Geometry**

As part of this unit, students will learn:

- +Imperial and metric measurement of length, volume, mass, etc..
- +The SI system of measurements (and converting between different SI units)
- +Converting between imperial and metric units
- +Area, volume, surface area of shapes

#### **November: Analysis of Games and Numbers, and Trigonometry**

As part of Trigonometry unit, students will learn:

- +Right triangles

- +The Pythagorean Theorem
- +The trig ratios (sin, cos, and tan), and inverse trig ratios
- +Calculating missing side lengths and angles within right triangles

**December:** Consumer decisions, and Transformation

As part of these units, students will learn:

- +Unit pricing and discounts
- +Currency exchange
- +Rate problems
- +Rotations, reflections, translations of shapes in the coordinate plane

**January:** Angle Construction, review for final exam

As part of this unit, student will learn:

- +how to draw angles
- +how to bisect and replicate angles
- +how to solve problems involving angles

***Note: Schedule is subject to change***

**Assessment**

Students will receive a final grade for this course using the following weighting:

Coursework: 70%

Final Exam: 30%

Throughout this course, coursework will include in-class assignments such as worksheets, quizzes, review activities, and homework. Interviews/numeracy conferences may also be included in the coursework. Further, data collected from games and activities may also be used for marks.

Each day 1, a formative mark and a quiz mark will be entered in Edsembli for you to keep track of. **A minimum mark of 50% is required to receive credit for this course.**

## **Class Policies**

Course materials will be uploaded onto Microsoft Teams. In the event of an absence, you are expected to consult Microsoft Teams and look through the material that you missed. It is also your responsibility to consult the teacher regarding any assignment that you might have missed.

All students are expected to attend each and every class, and be on time.

### **Cell Phones:**

Cell phones are only allowed to be used when the teacher says so. They must be kept in a locker or in a backpack otherwise. Cell phones are not permitted to be used as calculators for quizzes or exams. Recordings/Snaps are not to be taken in class.

### **Laptops:**

You are expected to only use your laptop for lesson related tasks such as taking notes, or accessing Teams. Gaming or using social media on your laptop during class is not acceptable.

### **Plagiarism/Cheating Policy**

1 st offense- The student will receive a 0 (zero) on the assignment. A phone call/email will be sent to the parent/guardian.

2 nd offense- A letter will also be sent home to the parent/guardian. The parent must sign the letter and return it to the school. The Student will receive a 0 (zero) on the assignment.

3 rd offense- The student will receive a zero 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.