



Ste. Rose School

Box 129

Ste. Rose, MB

ROJ 1S0

Course Title: Essential Math 20S

Teacher: Mr. Grammatico (Mr. G) (mgrammatico@trsd.ca)

Dates: Semester 1 (September 2022 - January 2023)

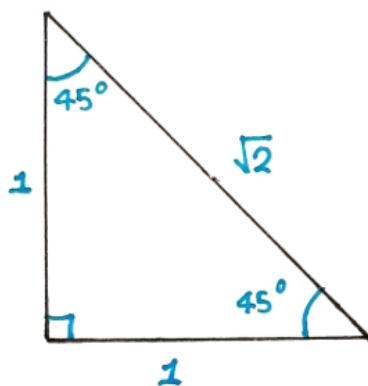
Days 4, 5, and 6 on the 6-day cycle

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. Much of the content is designed to suit the needs of those wanting to pursue the trades. 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
- *Analysis of Games
- *Consumer Decisions



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

Materials/Technology:

- +Scientific Calculator
- +Binder
- +Ruler
- +Pencils
- +Electronic device (such as a cell phone, iPad, or laptop)

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.

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 are only allowed to be used when the teacher says so.

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.