

McCreary School Outline

Grade 10-Essential Math 20S (3000)

Teacher: Mr. Dan MacFarlane

Credit Value: 1.0

Email: dmacfarlane@trsd.ca

Classroom: Room 9

Pre Requisites: None

Class Objectives: The purpose of this class is to further prepare students to communicate and reason mathematically, use mathematics confidently, accurately, and efficiently to solve problems, appreciate and value mathematics, make connections between mathematical knowledge and skills and their applications, and become mathematically literate citizens, using mathematics to contribute to society and to think critically about the world.

Come to class with:

→ Math Binder → Loose-leaf → Pencil/Pen/Eraser → Geometry Set → Calculator

→ Mathworks 10 Workbook to be assigned in class → Slides and handouts

Units/Overview

1. **Mental Math**- Working on personal mental math skills in a variety of areas related to topics covered in class (*Weekly, all semester*)
2. **Personal Finance**- Understanding the ins and outs of making money, how it is taxed, what taxes are and how to figure out net and gross pay. (*Sept 7- Sept 29*)
3. **Measurement**- Extensive use of all measurements, converting from Imperial and Metric and being able to apply them in multiple types of scenarios (*Oct 3-Oct 20*)
4. **Geometry**- Dealing with 2-D shapes; Perimeter, Surface Area, Area (*Oct 24- Nov 10*)
5. **Consumer Decisions**- Figuring out sale prices, saving money, looking for deals, unit pricing, exchange rates, converting currencies (*Nov 14- Nov 21*)
6. **Trigonometry**- Pythagorean Theory, angles and side lengths of Right Triangles (*Nov 22-Dec 9*)
7. **Angles**- Identifying all triangles, interior and exterior angles (*Dec 12-Jan 13*)
8. **Transformations**- Translate, rotate, reflect, and dilate various 2D shapes. (*Jan 16- Jan 27*)

NOTE: Unit tests will take place on or near the final allotted day as shown above. All dates are tentative and may be adjusted as needed depending on weather, school events, or extra time needed for certain topics.

Outcomes

GLO A: Develop critical thinking skills (All units and mental math)

Glo B: Develop an understanding of employment earnings (Personal Finance)

GLO C: Develop spatial sense through direct and indirect measurement (Measurement)

GLO D: Develop an understanding of spatial relationships applied to area (Geometry)

GLO E: Develop skills to make informed consumer decisions (Consumer Decisions)

GLO F: Develop spatial sense relating to triangles (Trigonometry)

GLO G: Develop spatial sense relation to triangles and transformations (Trigonometry)

Student Assessment

Assessment will be broken down into three categories:

The cumulative *Divisional Exam* will be 30% of the final mark. All assessments will be given a number value, dependent on each assignment, and will be stated prior to each test or assignment. Rubrics will be used for all projects. Assessment will be based on a variety of activities, and are listed below.

Assignments and Projects 40%

- Assigned Workbook pages to be marked, with practice pages for learning.
- Projects- To be marked with a rubric

Mental Math 5%

- Mental Math Activities (Completed at the start of most classes)
- Will be assessed based on completion and accuracy of daily exercises

Quizzes and Tests 25%

- Chapter Tests (End of each Chapter)
- Tests (At the end of each Unit)

Cumulative Final Exam 30%

- Divisional Exam covering all units taught (End of Term)

Make up assignments and re-tests will be available upon speaking with the teacher and there is a just-cause to do so. It is expected to have shown some effort by completing daily work and having evidence of an honest effort being put into the original assignment or test. This will be decided by the teacher and student at the time of the request.

Behavioural Assessment

Students will be assessed as per the guidelines from the Manitoba provincial report card, in the areas as follows:

Personal Management Skills· Organizes material, uses class time productively, works independently, completes all work on time, persists when faced with challenges, seeks help when needed, demonstrates a strong work ethic, shows patience, demonstrates on-task behaviour, sets personal management goals

Active Participation in Learning- Shows interest, asks questions, takes initiative, self-assesses work quality based on criteria, uses feedback to improve learning, uses criteria to provide feedback, uses a variety of media for communication, investigates questions, hypothesizes, analyzes

Social Responsibility- Works and interacts well with others, is welcoming and positive, shares resources and equipment with others, respects school values, respects and follows classroom routines, takes an equitable share in group work, is courteous, respects the need for safety, sets personal management goals

Late Assignment Policy

- McCreary School's policy for late assignments was developed in accordance with the Provincial Assessment Policy.
- The guidelines for late assignments are as follows:
 1. Teachers will set and communicate reasonable timelines for assignments
 2. Teachers will share timelines and reminders with students through various formats (ex. course outline, email, post in classroom, etc.)
 3. Teachers will assist students to meet timelines – monitor progress, check-ins
 4. Students who struggle will require additional support from the teacher
 5. Extensions will be granted at the teacher's discretion, for valid and legitimate reasons only (ex. Illness)
 6. Teachers will communicate with parents or set up parent/teacher/student conferences to discuss late assignments
 7. Teachers will make an arrangement with student to complete work
 8. Teachers will create alternative assignments for diverse learning needs

Incomplete Work

Where the above guidelines have been followed and assignments are not handed in by the given due date, a deduction in marks will apply. Upon teacher discretion a maximum of **5%** may be deducted for every day the assignment is not turned. If the assignment is not turned in after **two weeks** or at the start of a new unit, the assignment will receive a mark of zero.

Academic Integrity and Honesty

Students guilty of cheating (copying, plagiarizing, etc.) will receive a zero and their parents will be notified.

Student Support and Attendance Policy

The teacher will be available for additional support outside of the classroom hours and is the responsibility of the student to arrange a time with the teacher. Students will be responsible to complete work they miss in the case of their absence (which the teacher must be informed in advance, when possible). Those who do not attend class regularly will be referred to the Learning to 18 Coordinator.

Homework Policy

So long as they are focused and engaged, students will be given ample time to complete assignments during class. However, there may be times that work needs to be completed outside of school, especially for end of unit assignments and/or studying for tests. Homework will not be assigned for the sake of giving homework, but students are expected to take unfinished work home if they have been unable to complete it during class.

Use of Technology

Phones and laptops will be permitted for use in class so long as they are being used appropriately. They can be used to listen to music during work periods, as a calculator during assignments (not permitted on tests or exams), or general use, sparingly. Students will be expected to have phones away during active teaching time, and may be asked to put them away if being used inappropriately. If a student refuses to follow these rules, their device may be taken and placed on the teacher's desk until the end of class.