Mr. Anstett's Grade 10 Essential Math Class

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Ste. Rose School

Course Designation: 20S   **Credit Value: 1.0**   **Course Code: 0001**

Course Description:

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). Essential Math 20S 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.

Proposed Texts and Units:

Unit One: *Measurement* (approx. 3 weeks)
-imperial length measurements (length, are, volume, capacity and mass)
-SI (metric) length measurements (length, are, volume, capacity and mass)
-converting measurements

Unit Two: *Personal Finance* (approx. 4 weeks)
-wages
-salary
-contracts
-commissions
-piecework
-problem solving

Unit Three: *2-D Geometry* (approx. 2 weeks)
-imperial and SI (metric) measurements of regular, composite and irregular 2-D shapes
-perimeter and area

Unit Four: *Trigonometry* (approx. 3 weeks)
-right triangles
-the Pythagorean theorem
-similarity and scale
-the tangent ratio
-the sine and cosine ratios
-determining unknown angles

Unit Five: *Consumer Decisions* (approx. 1 week)

-unit pricing
-currency exchange

Unit Six: _Transformations_ (approx. 3 weeks)
-translations
-rotations
-reflections
-dilations

Unit Seven: _Angle Reconstruction_ (approx. 3 weeks)
-understanding angles (acute, right, obtuse, straight and reflex)
          *draw   *replicate/construct   *bisect   *solve problems
-solve problems: parallel, perpendicular and transversal lines (angles formed between them)

Curriculum Documents:
Full Document can be found at (https://www.edu.gov.mb.ca/k12/cur/math/framework_9-12/index.html)

Classroom Expectations:

1. We respect each other. We are all different and unique, and each of us has something to add to each other's learning. When we are sharing these experiences, we will listen and respond with respect.
2. We try our best. Not everyone is equal when it comes to their abilities. I only ask that you try to give your best every day, and that today you are trying to be better than yesterday.
3. We are a team. We are allies and are here to help each other on the journey through education. I am your coach, not your boss.
4. We learn from our mistakes. We are all human and as such, we make mistakes. Get up, dust yourself off, and learn from it so that you do not repeat your mistakes again.
5. We celebrate each other's success. If one member of the team wins, we all win.

Assessment Breakdown:

30%..... Final Exam

70%.... Course Work

 ** Students will receive a variety of assignments designated for assessment. These will include (but are not limited to) written, verbal, and group assignments. Students will be marked on an overall percentage based off of the weighted value of each assignment. Rubrics/checklists will be used aid in the understanding of expectations and will be used to mark the final copy of the students. **

Formative Assessment:

Assignments may be taken in to check on the understanding on the progress of the student. Students will be expected to submit assignments to check the overall understanding of the student's progress and receive feedback regarding that particular assignment.

Required Materials:

- Binder
- Loose Leaf
- Pencils/Pens (both red and blue)
- Textbook (10 Math at Work)

Cellphone Policy:

You are expected to pay attention at all times during the lesson; which you cannot do while you are looking at your phone. Phones should not be used unless explicit instruction was given from the teacher.

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.

Absences Policy:

Your parents will be receiving an email/phone call/letter if you are absent 5 times this year. They will be receiving another email/phone class/letter if you have absent 10 times. If you are absent **more than** 10 times, a parent meeting will need to be scheduled in order for you to continue with this class.

Plagiarism/Cheating Policy:

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 principle for further disciplinary action. A meeting will need to be arranged with the parent/guardian to address the severity of this issue.

Late Assignment Policy:

Assignments are expected to hand in assignments on the due date. Late assignments will only be accepted by 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.

Extra Help:

If a student requires extra help on a particular assignment/topic we covered in class, it is up to the student to request a meeting with the teacher.