

Mathématiques (MAT 8)
8^e année Course code : 0080
Teacher: Mme Pearson
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École Laurier

2023-2024

Course overview:

Mathematics is more than just computing equations. Mathematical literacy is needed in all aspects of life, and all students are mathematicians. Students will be constructing their own meanings of math, and be able to discuss and make links among concrete, pictorial and symbolic representations. We will be looking at integers, fractions (multiplication & division), decimals, percentages, PEMDAS (order of operations), Pythagorean Theorem, equations, algebra, geometry, data analysis, statistics, and probability. Students will also be thinking critically and solving problems. We will be following the mRLC pacing guide.

septembre – mi-octobre: révision et module 2: Les nombres entiers

mi-octobre - novembre: module 2: Les nombres entiers et module 3: Les opérations sur les fractions et module 4: Les prismes et les cylindres

novembre: module 4: Les prismes et les cylindres

décembre: module 1: Les racines carrées et le théorème de Pythagore

janvier - mars: module 6: Les équations linéaire et leur représentation graphique et module 5: Les pourcentages, les rapports et les taux

avril: module 6: Les Équations linéaire et leur représentation graphique et module 7: L'analyse des données et la probabilité

mai: module 7: L'analyse des données et la probabilité et module 8: La géométrie

juin: la révision cumulative

Course Learning Outcomes:

1. Communicate and reason mathematically.
2. Use mathematics confidently, accurately, and efficiency to solve problems.
3. Appreciate and value mathematics.
4. Make connections between mathematical knowledge and skills and their applications.
5. Become mathematically literate citizens, using mathematics to contribute to society and to think critically about the world.

Supply list:

- ✓ Binder
- ✓ Loose leaf paper
- ✓ Pen/pencil
- ✓ Math cahier : Cahier d'activités et d'exercices Éditions PONC
- ✓ Math textbook: Chenelière Mathématiques 8
- ✓ Scientific calculator

Resources that are helpful:

- ✓ French dictionary
- ✓ French/English dictionary

Classroom tools and procedures:

1. Students need to organize a section in their binder for math. Math subcategories: Lessons/notes, classwork, mental math, problem solving, assignments/tests/quizzes
2. Students will keep their binder in their desk and add worksheets to the math section at the end of class.

Classroom rules and expectations:

All members of the classroom will....

1. Maintain the classroom as a safe place to learn.

- a. All members will be respectful of the opinions, ideas, culture, gender, sexuality and overall personality of their peers and adults in the class, whether they agree with them or not.

2. Respect their classmates.

- a. The members of the class must respect the others right to learn and work in the school environment. This means that students need to refrain from talking during instruction, and not engaging in distracting behavior during work time.

3. Use of technology.

- a. The use of electronic devices is essential to this course. However, access to them is a privilege and not a right. Technological use will be for academic purposes only. Technology will be used at the teacher's discretion.

4. Be prepared.

- a. Come prepared to class ready to learn with necessities that will be used every day in class. It is the student's responsibility to not lose their paper work and to save frequently while doing computer tasks.

5. Homework

- a. If a student has homework they must complete it the day it was given, if they fail to complete the homework they will have to spend their spare time finishing it at the school.

Assessment Guidelines:

- **Assessments/work** are due at the beginning of the class on the due date. (If extension is needed, the student must ask the teacher, and it is at the teacher's discretion whether or not an extension will be granted).
- **Late assignments** will receive a **zero** until the assignment is handed in.
- **Tests:** students will have the chance to re-write up one test of their choice.
- **Plagiarized assignments** will be given a **zero** until the student has redone the assignment. This includes writing an assignment in English and using an online translation device to render the assignment in French.
- If **a class is missed**, it is the student's responsibility to find what they have missed and to complete work that was done on their own time.
- **Extra assistance:** student must arrange a time with teacher to receive extra assistance.

Methods of evaluation:

Rubrics, quizzes, tests, mental math sheets, projects, math talks, problem solving journal, checklists, self-evaluations, teacher anecdotal notes, etc.

Method of assessment:

Each mark will be assessed with a percentage.

Course Marking Overview:

Mental Math & Estimation: 25%

- ✓ Daily mental math questions, discussions & math talks

Problem solving: 25%

- ✓ Routine entries of problem solving questions

Knowledge and Understanding: 50%

- ✓ Lessons/notes/class questions/daily exercises
 - Review of previously taught skills
 - Math cahier
 - Exercises that go with the lesson
 - Step by step questions, review before modules, review before tests, etc.
 - Lessons of new skills
 - Math workshop
- ✓ Quiz/tests/final projects

Final Note for Parents:

I look forward to working with you and your student to expand their knowledge in Mathematics. They will get the chance to explore, create goals, and increase their creativity. I welcome both your son or daughter and you to the class. If you have any questions, please contact me via email.

I have read the Mathematics course outline and I am familiar with the content. I have read the classroom rules and expectations and I want to participate in the classroom activities in a positive way. I understand that this is a classroom contract that I will try my best to uphold.

Date Read: _____

Student's name: _____

Student's Signature: _____

Parent/Guardian's name(s): _____

Parent/Guardian's signature(s): _____

Parent/Guardian's Email Address: _____

Comments: _____
