**Foundations and Pre-Calculus Mathematics 10 2nd Semester (2021-2022)**

**Teacher: Mr. Formaran**

**Resource: McGraw-Hill Ryerson Mathematics 10**

Course Content Overview Grade 9 Review

*Chapter 1 – Real Numbers*

* 1. Number Systems
	2. GCF and LC
	3. Squares and Square Roots
	4. Rational and Irrational Numbers
	5. Exponential Notation
	6. Irrational Numbers

*Chapter 2 – Polynomials*

2.1 Classifying Polynomials

2.2 Multiplying Polynomials

2.3 Removing Common Factors

2.4 Factoring

2.6 Special Factors

*Chapter 3 – Relations and Functions*

3.1 Relations

3.2 Functions

3.3 Linear Equations

*Chapter 4 – Linear Functions*

4.1 Slope

4.2 Rate of Change

4.3 Graphing Linear Functions

4.4 Parallel And Perpendicular Lines

4.5 Applications of Linear Relations

*Chapter 5 – Linear Equations*

5.1 Different Forms of Linear Equations

5.2 Special Cases of Linear Equations

5.3 Equations of Parallel and Perpendicular Lines

5.4 Linear Applications and Modelling

5.5 Function Notation

*Chapter 6 – Solving Linear Systems*

6.1 Solving Linear Systems by Graphing

6.2 Solving Linear Systems by Addition/Elimination

6.3 Solving Linear Systems by Substitution

6.4 Problem Solving with Two Variables

6.5 Arithmetic Sequences

6.6 Arithmetic Series

*Chapter 7 – Finance*

7.1 Simple and Compound Interest

7.2 Gross and Net Pay

7.3 Tax Rates

7.4 Net Income

*Chapter 8 - Trigonometry*

8.1 Sine, Cosine, and Tangent for Right Triangles

8.4 Applications of Trigonometry

Final Exams

**CALCULATION OF CLASS WORK MARK**

**Assignments 20%**

* from the book/workbook
* given by the teacher
* make your own word problem
* given by classmate/s

**How to mark: marks**

* complete and correct 4
* complete but some are wrong 3
* not complete and correct 2
* not complete but some are wrong 1
* no assignment 0

**Classroom Participation 15%**

* In class, taking notes/participating in the discussion

No cellphone during class 4

* In class but late (unreasonable) taking notes/participating

in class but distracted by cell phone or someone/thing twice 3

* In class but late (unreasonable) taking notes/participating in class

but distracted by cell phone or someone/thing more than twice 2

* In class but late (unreasonable) and distracted 1
* Absent without valid reason or skipping class 0

**Quizzes 25%**

* 1st try (set A) - 2nd try (set B)

 **Tests 30%**

* 1st try (set A) - 2nd try (set B)

**How to mark quiz and test:**

 *Level Mark Total*

 *1 Emerging (50%) 1*

 *2 Developing (22%) 2*

 *3 Proficient (13%) 3*

 *4 Extending (15%) 4*

**Project 10%**

* In every term

**Total 100%**

**FINAL MARK – School-based final exam**

 Class work 80%

 Final Exam 20%

 **TOTAL 100%**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please fill in:

I am good at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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At school, I am good at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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In Math, I am good at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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I am most interested in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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I usually have difficulty with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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I would appreciate help with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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I am \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at note-taking

I am \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at reading assigned passages from the textbook,

 And extracting important information

I am \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at copying notes from the board

Please circle the letter in the beginning of the expression(s) that most appropriately describes your attitude towards this course

a. I find math interesting but difficult

b. I am curious to see if I like this course

c. I am taking this because I did not want to take any other Math course

and I needed another credit

d. I am taking this course because I was told to do so

e. I love math, it is my favorite subject

**SUDOKU 1**

